Owner's Manual

MAGNAVOX
SMART. VERY SMART.

ZC357MGX
Digital Video Disc Recorder with Digital Tuner

STOP!

Thank you for choosing Magnavox.

Need help fast?
Read your Quick Guide and/or Owner's Manual first for quick tips that make using your Magnavox product more enjoyable.
*If you have read your instructions and still need assistance, you may access our online help at http://www.magnavox.com/support or call 1-800-605-8610 while with your product.*

INSTRUCCIONES EN ESPAÑOL INCLUIDAS.

Introduction

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

Others

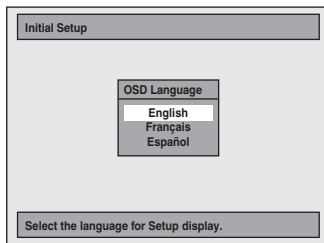Español

© 2009 Funai Electric Co., Ltd.

4. Prepare

1 After all the connections are complete, connect the AC power cord.

2 **Insert two Size AA (R6) batteries.**
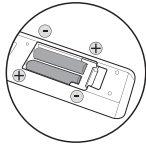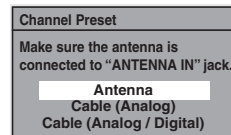
3 **Press [STANDBY-ON ⏻] to turn on the unit.**

4 **Turn on your TV.**

5 **Press the button on the TV's remote control that accesses the external input channel repeatedly until you see "Initial Setup" menu. (Please refer to your TV's owner's manual.)**

```
Initial Setup

        OSD Language
          English
          Français
          Español

   Select the language for Setup display.
```

If the TV is connected by an HDMI cable, it may take a while for the "Initial Setup" menu to come up.

6 **Use [▲/▼] to select your desired language, then press [OK].**

7 **Use [▲/▼] to select the type of broadcasting signal, then press [OK].**

```
Channel Preset

Make sure the antenna is
connected to "ANTENNA IN" jack.

        Antenna
     Cable (Analog)
  Cable (Analog / Digital)
```

"Auto Presetting Now"

If a PBS (public broadcasting station) is available in your area, clock setting will automatically be performed and the correct clock will be displayed following the channel preset procedure.
Initial setting is then complete.
Press **[RETURN]** to exit.

If a PBS (public broadcasting station) is not available in your area, press **[OK]**. Then proceed to step 5 in "Manual Clock Setting" on page 30 in the Owner's Manual.

5. Record

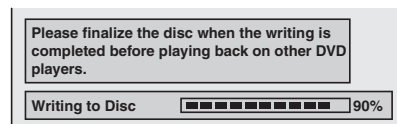**1** **Insert a recordable disc (refer to steps 1 - 3 on page 39 in the Owner's Manual on how to insert a disc).**

Align the disc to the disc tray guide.

2 **Press [REC MODE] repeatedly to select a recording mode.**

3 **Select the appropriate external input channel by pressing [SOURCE] or [CHANNEL+ /–].**
Press [DTV/TV] to select analog TV or digital TV, then use [CHANNEL+ /–] or [the Number buttons] and [•] (for digital TV channels) to select a desired channel to record.

4 **Press [REC] to start recording.**

5 **Press [STOP ■] to stop recording.**

The recorded title will appear in the title list. (Refer to "Guide to a Title List" on page 67.)

e.g.) DVD+R

```
Please finalize the disc when the writing is
completed before playing back on other DVD
players.

Writing to Disc        [============] 90%
```

• Press **[STOP ■]** to exit the title list.

You will need to finalize DVD+R, DVD-RW or DVD-R to play them back on other DVD players. Refer to page 50 in the Owner's Manual on how to finalize a disc.

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info

For more info,
please contact **1-800-605-8610**
or visit : http://www.magnavox.com/support

Manual

Please read the supplied Owner's Manual for the detailed instructions.

MAGNAVOX

Quick Guide

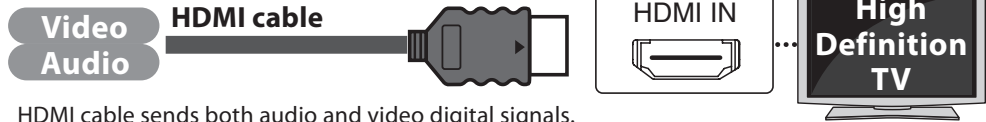Digital Video Disc Recorder with Digital Tuner   **ZC357MGX**

1. **Antenna Connection** ▶ *2.* **Select** ▶ *3.* **Connect** ▶ *4.* **Prepare** ▶ *5.* **Record**

1. Antenna Connection

VHF / UHF antenna

cable TV company

rear of this unit

RF coaxial cable

RF coaxial cable

ANT. IN

OUT

ANTENNA

IN

Your TV

This connection is for TV loop through only

When you use the cable/satellite box, please connect according to below

RF coaxial cable

rear of this unit

ANT. IN   ANT.OUT

ANTENNA   AUDIO IN (L1)

VIDEO IN

L

R

OUT

RCA audio cable

cable/satellite box

RCA video cable

Best — Progressive-compatible

Video / Audio

HDMI cable

HDMI IN — Your TV — **High Definition TV**
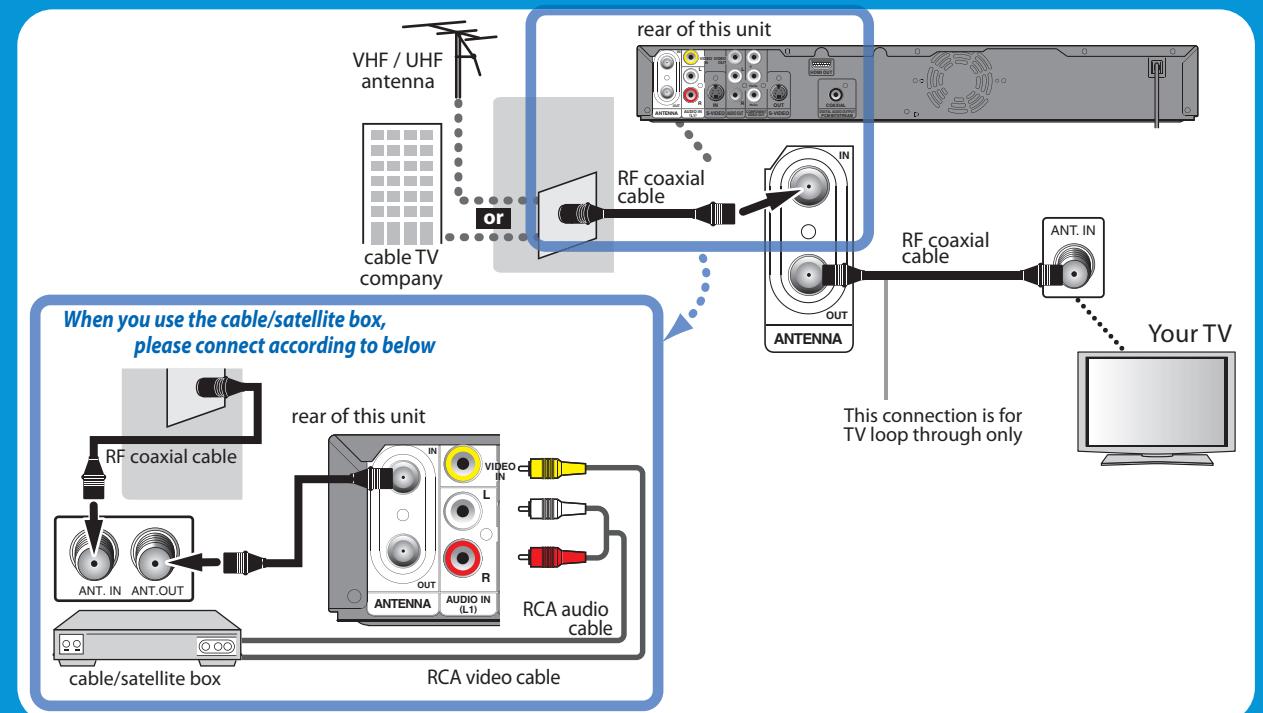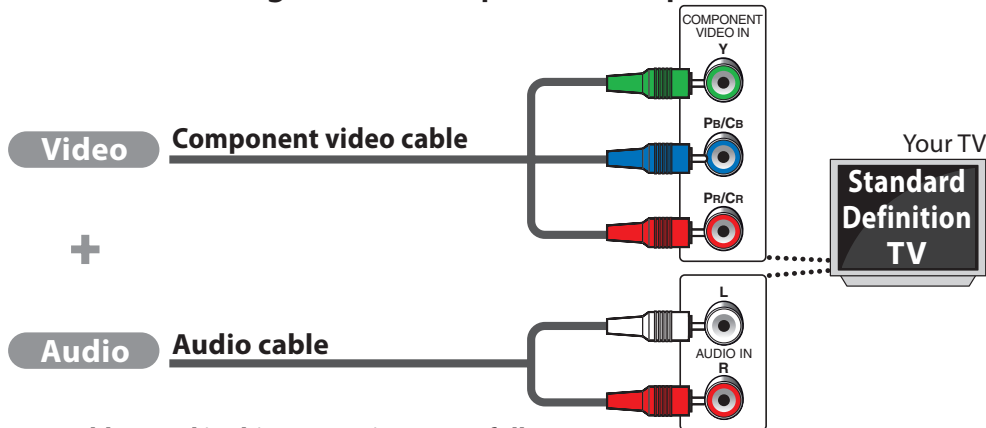
HDMI cable sends both audio and video digital signals. (No additional audio connection is required.)
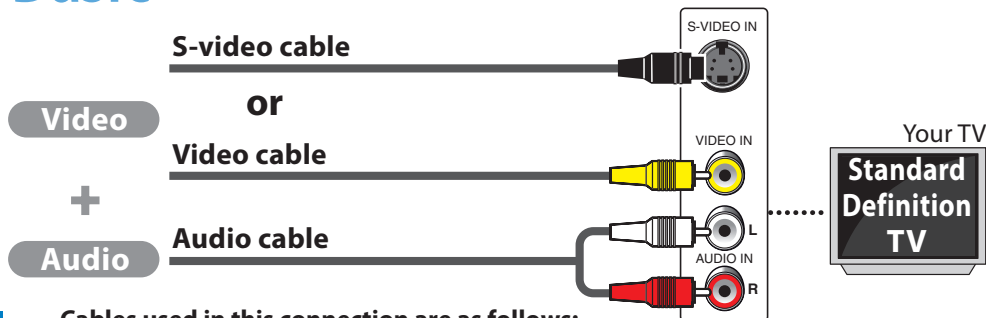
HDMI cable not included.
High Speed HDMI Cable (also known as HDMI category 2 cable) is recommended for the better compatibility.

Better — Progressive-compatible(480p)

Video — **Component video cable**

COMPONENT VIDEO IN
Y
P_B/C_B
P_R/C_R

Your TV — **Standard Definition TV**

+

Audio — **Audio cable**

AUDIO IN
L
R

Cables used in this connection are as follows:
• Audio cable (L/R) x 1 (Included)
• Component video cable x 1 (Cable not included.)

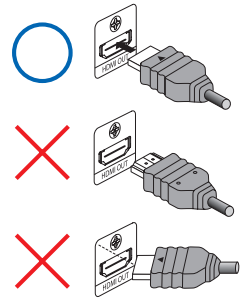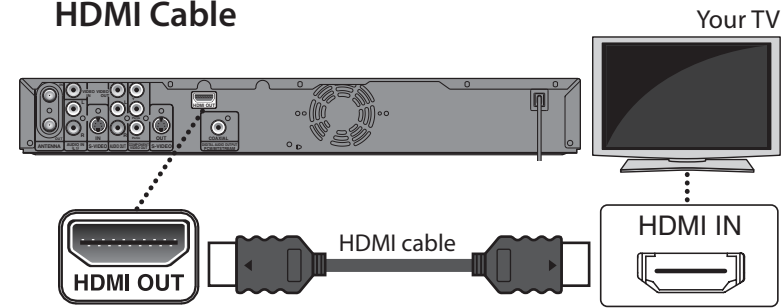## Basic — Supports only 480i resolution.

Video

S-video cable

S-VIDEO IN

or

Video cable

VIDEO IN

+

Audio — **Audio cable**

AUDIO IN
L
R

Your TV — **Standard Definition TV**

Cables used in this connection are as follows:
• Audio cable (L/R) x1 (Included)
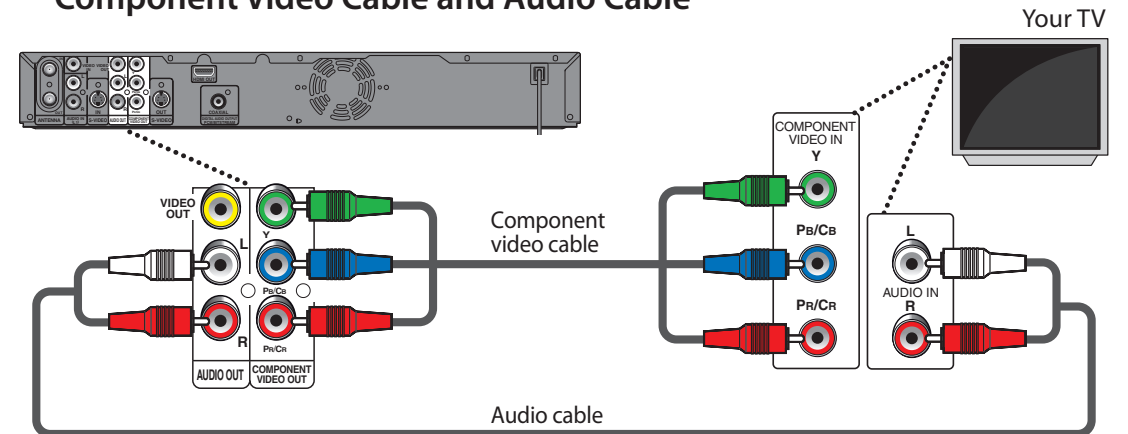• Video cable x1(Included)
• S-video cable x1 (Cable not included.)

HDMI Cable

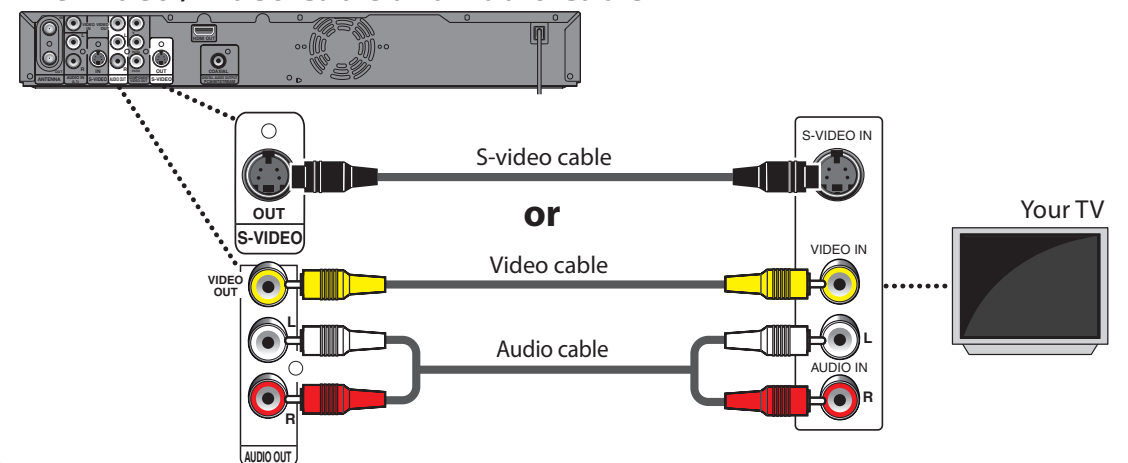Your TV

HDMI OUT — HDMI cable — HDMI IN

Do not tilt the connector when inserting it into the HDMI jack, and make sure the shapes of the jack and the connector are matched.

Component Video Cable and Audio Cable

Your TV

VIDEO OUT
Y
L
P_B/C_B
R
P_R/C_R
AUDIO OUT   COMPONENT VIDEO OUT

Component video cable

COMPONENT VIDEO IN
Y
P_B/C_B
P_R/C_R
L
AUDIO IN
R

Audio cable

S-Video / Video Cable and Audio Cable

Your TV

OUT S-VIDEO
VIDEO OUT
L
R
AUDIO OUT

S-video cable

or

Video cable

Audio cable

S-VIDEO IN
VIDEO IN
L
AUDIO IN
R

SAFETY INFORMATION

The model and serial numbers of this unit may be found on the cabinet. You should record and retain those numbers for future reference.

Model No.: _____

Serial No.: _____

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.
APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The important note is located on the rear or bottom of the cabinet.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacture's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

FCC WARNING
This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

RADIO-TV INTERFERENCE
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
    1) Reorient or relocate the receiving antenna.
    2) Increase the separation between the equipment and receiver.
    3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
    4) Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Disconnect the mains plug to shut off when find trouble or not in use. The mains plug shall remain readily operable.

SAFETY INFORMATION

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
WARNING: Batteries (Battery pack or battery installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

LASER SAFETY
This apparatus employs a laser. Only a qualified service person should remove the cover or attempt to service this apparatus, due to possible eye injury.
CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
CAUTION: Visible and invisible laser radiation when open and interlock defeated. Do not stare into beam.
LOCATION: Inside, near the deck mechanism.

IMPORTANT COPYRIGHT INFORMATION
Unauthorized copying, broadcasting, public performance and lending of discs are prohibited. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Do not place the unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling unit can cause serious injury or even death.

To Avoid the Hazards of Electrical Shock and Fire

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from an AC outlet. Grasp it by the plug.
- Do not put your fingers or objects into the unit.

Location and Handling

- Do not install the unit in direct sunlight, near strong magnetic fields, or in a place subject to dust or strong vibration.
- Avoid a place with drastic temperature changes.
- Install the unit in a horizontal and stable position. Do not place anything directly on top or bottom of the unit. Depending on your external devices, noise or disturbance of the picture and/or sound may be generated if the unit is placed too close to them. In this case, please ensure enough space between the external devices and the unit.
- Depending on the environment, the temperature of this unit may increase slightly. This is not a malfunction.
- Be sure to remove the disc and unplug the AC power cord from the outlet before carrying the unit.

Dew Condensation Warning

- Dew condensation may form inside the unit in the following conditions. If so, do not use this unit at least for a few hours until its inside gets dry.
  - The unit is moved from a cold place to a warm place.
  - Under conditions of high humidity.
  - After heating a cold room.

Note about Recycling

- This unit's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.
- Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

Notice for Progressive Scan Output

- Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 525(480) progressive scan output, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set compatibility with this 525p(480p) DVD player, please contact our customer service center.
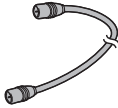
Connections

Basic Setup

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Playback

Editing

Function Setup

Others

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SAFETY INFORMATION
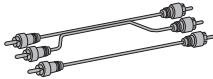
Supplied Accessories

remote control (NB883UD) with batteries (AAx2)
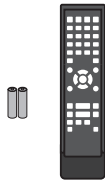
RF coaxial cable (WPZ0901TM005/WPZ0901TM002)

RCA audio/video cables (WPZ0102TM018/WPZ0102LTE01)

owner's manual (1VMN26797)

quick guide (1VMN26798)

Maintenance

Servicing

• Please refer to relevant topics on "TROUBLESHOOTING" on pages 91-94 before returning the product.
• If this unit becomes inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn the unit to the standby mode, unplug the power plug and please call our help line mentioned on the front page to locate an Authorized Service Center.

Cleaning the cabinet

• Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasive.

Cleaning discs

• When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center to out. Do not wipe in a circular motion.
• Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analog records.

Cleaning the disc lens

• If this unit still does not perform properly although you refer to the relevant sections and to "TROUBLESHOOTING" in this owner's manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

Disc handling

• Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
• Always store the disc in its protective case when it is not used.

IR signal check

If the remote control does not work properly, you can test if the remote control sends out the infrared signal with AM radio or a digital camera (including built-in camera of cellular phone). It will help to define the cause of malfunction.

• **With an AM radio:**
  Tune an AM radio to a station with no broadcasting. Press a button on remote control toward the radio. Sound will be fluttering when you press any key and the radio receives the signal. This means the remote control is working.

• **With a digital camera (including built-in camera of cellular phone):**
  Direct a digital camera to remote control, press and hold a button on remote control. If infrared light appears through digital camera, the remote control is working.

SAFETY INFORMATION

Trademark Information

Kodak Picture CD COMPATIBLE is trademark of Eastman Kodak Company.

DOLBY DIGITAL RECORDING

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Dolby Digital Recording

"Dolby® Digital Recording enables consumers to record high-quality video with stereo sound on recordable DVD discs. The technology, when utilized instead of PCM recording, also saves recordable disc space, allowing for higher video resolution or extended recording time on each DVD. DVDs created using Dolby Digital Recording will play back on all DVD-video players."

Note: This is true when the players are compatible with actual recordable DVD discs.

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Connections

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Editing

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Others

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FEATURES

This unit not only plays back DVD and CD but also offers features for you to record on DVD and edit them after that. The following features are offered with this unit.

Recording

This unit is compatible with DVD+RW/DVD-RW, which are rewritable repeatedly and DVD+R/DVD-R, which are available for recording once. Even if you choose DVD-RW/DVD-R, these discs will automatically be recorded in the DVD+VR mode.

Up to 12 program recording:
You can program the unit to record up to 12 programs within a one-month period. Daily or weekly program recordings are also available.

One-touch timer recording (OTR):
You can easily set a recording time as you prefer. Every time **[REC]** is pressed during recording, the recording time will be increased by 30 minutes up to 6 hours. The recording automatically stops when the recording time you set is reached or the disc is full.

Left channel stereo recording:
This unit can record the sound of the left channel monaural input as left and right channels automatically (the input from the L2 jacks only).

Automatic chapter mark setting:
Chapter marks will be put on recordings as you set before attempting to record.

Automatic title list making:
The unit makes a title list with the index automatically.

Playback

Theater surround sound in your home:
When connecting the unit to an amplifier or a decoder which is compatible with Dolby Digital, you can experience the theater surround sound from discs with surround sound system.

Quick search for what you want to watch:
You can easily find the part you want to watch using the search function. Search for a desired point on a disc by title, chapter or time.

Virtual surround system:
You can enjoy stereophonic space through your existing 2 channel stereo system.

Playing back MP3 / JPEG / Kodak Picture CD files:
You can enjoy MP3 / JPEG / Kodak Picture CD files which are recorded on CD-RW/-R.

Editing

Deleting titles:
You can delete titles which you do not need anymore.

Putting names on titles:
You can put your favorite names on titles.

Setting / clearing chapter marks:
You can set / clear chapter marks on titles.

Hiding chapters:
To keep others from playing back some chapters without permission, you can hide chapters.

Setting pictures for thumbnails:
You can change pictures for thumbnails.

Dividing titles (DVD+RW/DVD-RW only):
You can divide a title into 2 or more.

Putting name on disc:
You can put your favorite disc name.

Compatibility

Available for playing back discs on a regular DVD player:
Recorded discs can be played back on regular DVD players, including computer DVD drives compatible with DVD-video playback. Although DVD+R are playable on other units without finalization in most cases, it is recommended to finalize in order to stabilize the performance. For DVD-RW/-R, you need to finalize the recorded discs to play back on other DVD players.

Others

Progressive scan system
Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional television signals.

HDMI (High-Definition Multimedia Interface)
You can enjoy clearer audio/video output when connecting this unit to a display device with an HDMI-compatible port.

FEATURES

Symbols Used in this Owner's Manual

To specify for what disc type each function is, we put the following symbols at the beginning of each item to operate.

* DVD-RW/-R recorded in VR mode or non compatible recording format are not playable.
* DVD-RW recorded in the mode other than +VR is not recordable on this unit unless you erase all contents in the disc (refer to page 77).
* DVD-R recorded in the mode other than +VR is not recordable on this unit.

Symbol	Description
For Recording, Playing Back, and Editing	
DVD +RW	Description refers to DVD+RW
DVD +R	Description refers to DVD+R
DVD −RW	Description refers to DVD-RW
DVD −R	Description refers to DVD-R
For Playback only	
DVD VIDEO	Description refers to DVD-video
CD	Description refers to audio CD
VCD	Description refers to video CD with PBC function
VCD WITHOUT PBC	Description refers to video CD without PBC function
MP3	Description refers to CD-RW/-R with MP3 files
JPEG	Description refers to CD-RW/-R with JPEG files (Kodak Picture CD files included)

If you do not find any of the symbols listed above under the function heading, the operation is applicable to all media.

FUNCTIONAL OVERVIEW

Front Panel
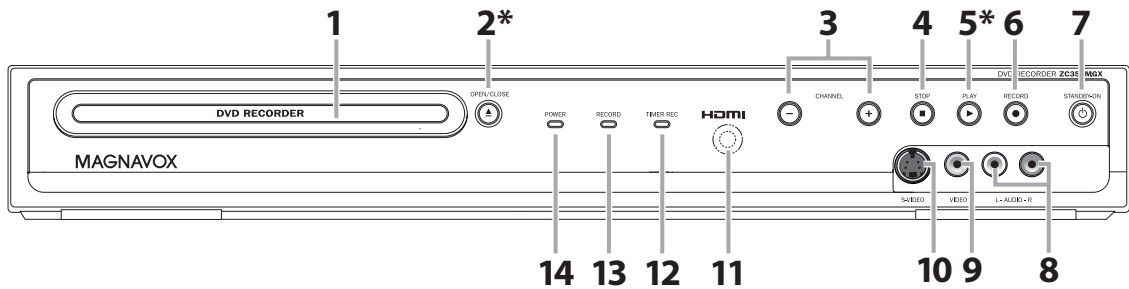
(∗) The unit can also be turned on by pressing these buttons.

1. Disc tray

Place a disc when it is open.

2. ▲ OPEN/CLOSE button*

Press to open or close the disc tray.

3. CHANNEL ＋ / － buttons

Press to change the channel up and down.

4. ■ STOP button

• Press to stop playback or recording.

• Press to stop the proceeding timer recording in DVD.

5. ▶ PLAY button*

Press to start or resume playback.

6. ●RECORD button

• Press once to start a recording.

• Press repeatedly to start the one-touch timer recording.

7. ⏻ STANDBY-ON button

• Press to turn on the unit, or to turn the unit into the standby mode. (To completely shut down the unit, you must unplug the AC power cord.)

• If timer programmings have been set, press to set the unit in timer-standby mode.

8. AUDIO input jacks (L2)

Use to connect external device with an RCA audio cable.

9. VIDEO input jack (L2)

Use to connect external device with an RCA video cable.

10. S-VIDEO input jack (L2)

Use to connect the S-video output of external device with an S-video cable.

11. Infrared sensor window

Receive signals from your remote control so that you can control the unit from a distance.

12. TIMER REC indicator

• Lights up when timer programming is set.

• Lights up during one-touch timer recording.

• Flashes when all timer programmings have been finished, or when a program cannot be performed by some reason.

13. RECORD indicator

Lights up when recording function works.

14. POWER indicator

Lights up when power is on.

FUNCTIONAL OVERVIEW

Rear Panel

Connections

Basic Setup

Recording

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Editing

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Others

Español
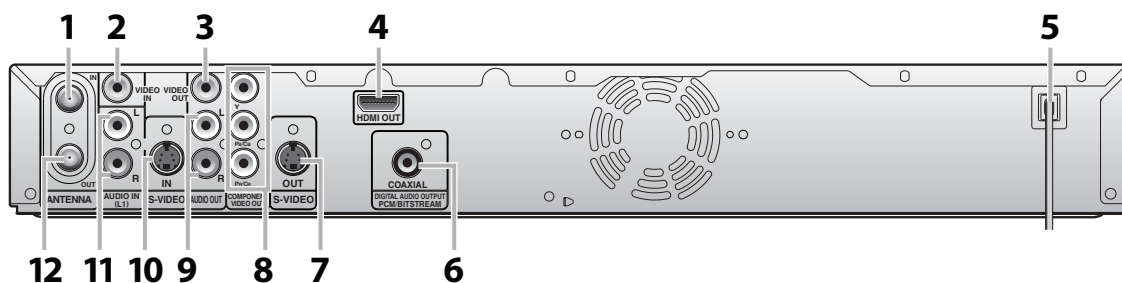
1. ANTENNA IN jack
 • Use to connect an antenna.

2. VIDEO IN jack (L1)
 • Use to connect external device with an RCA video cable.

3. VIDEO OUT jack
 • Use to connect a TV monitor, AV receiver or other device with an RCA video cable.

4. HDMI OUT jack
 • Use an HDMI cable to connect to a display with an HDMI compatible port.

5. AC Power Cord
 • Connect to a standard AC outlet to supply power to this unit.
 • Unplug this cord from the AC outlet to completely shut down the unit.

6. COAXIAL DIGITAL AUDIO OUTPUT jack
 • Use to connect an AV receiver, Dolby Digital decoder or other device with a coaxial digital input jack with a digital coaxial cable.

7. S-VIDEO OUT jack
 • Use to connect the S-video input of a TV monitor, AV receiver or other device with an S-video cable.

8. COMPONENT VIDEO OUTPUT jacks
 • Use to connect a TV monitor with component video inputs with a component video cable.

9. AUDIO OUT jacks
 • Use to connect a TV monitor, AV receiver or other device with an RCA audio cable.

10. S-VIDEO IN jack (L1)
 • Use to connect the S-video output of external device with an S-video cable.

11. AUDIO IN jacks (L1)
 • Use to connect external device with an RCA audio cable.

12. ANTENNA OUT jack
 • Use to connect an RF coaxial cable to pass the signal from the ANTENNA IN to your TV.

Note

• Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.
• This unit does not have the RF modulator.

Remote Control

Installing the Batteries in the Remote Control

Install the batteries (AAx2) matching the polarity indicated inside battery compartment of the remote control.

1 **Open the cover.**
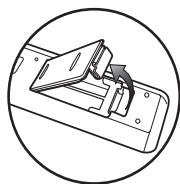
2 **Insert batteries.**
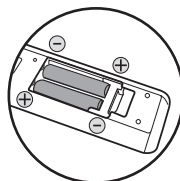
Make sure to match + and - on the batteries to the marks indicated in the battery compartment.

3 **Close the cover.**
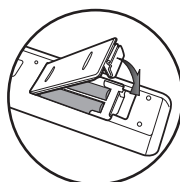
Note

Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

- Do not mix new and old batteries together.
- Do not use different kinds of batteries together. Although they may look similar, different batteries may have different voltages.
- Make sure that the + and - ends of each battery match the indications in the battery compartment.
- Remove batteries from battery compartment that is not going to be used for a month or more.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.
- Do not recharge, short-circuit, heat, burn or disassemble batteries.

Using a Remote Control

Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the infrared sensor window of the unit.
- Remote control for different devices can interfere with each other. Avoid using remote control for other device located close to the unit.
- Replace the batteries when you notice a fall off in the operating range of the remote control.
- The maximum operable ranges from the unit are as follows.
- **Line of sight**: approx. 23 feet (7m)
- **Either side of the center:**
  approx. 16 feet (5m) within 30°
- **Above:** approx. 16 feet (5m) within 15°
- **Below:** approx. 10 feet (3m) within 30°

16 feet (5m)   23 feet (7m)   16 feet (5m)
30°   30°

FUNCTIONAL OVERVIEW
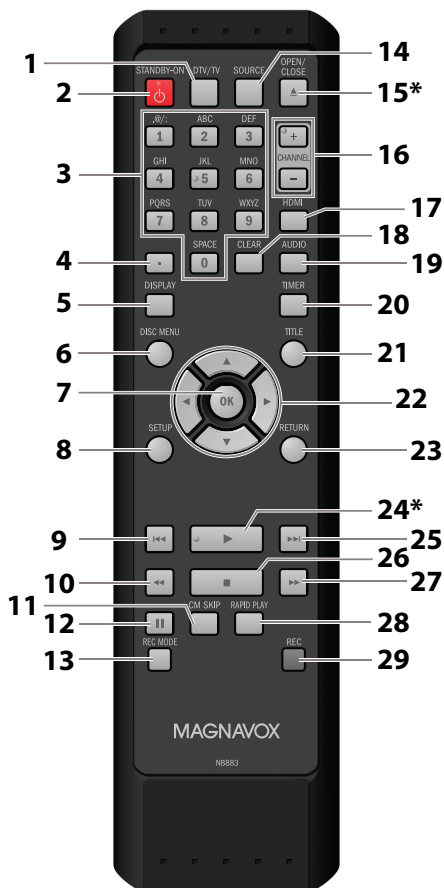
(∗) The unit can also be turned on by pressing these buttons.

1. DTV/TV button
Press to switch between digital TV mode (DTV) and analog TV mode.

2. STANDBY-ON ⏻ button
• Press to turn on the unit, or to turn the unit to the standby mode. (To completely shut down the unit, you must unplug the AC power cord.)
• If timer programmings have been set, press to set the unit in timer-standby mode.

3. Number/Character buttons
• Press to select channel numbers.
• Press to select a title/chapter/track/file on display.
• Press to enter values for the settings in the main menu.
• Press to enter title names.

4. Confirm (•) button
Analog mode:
Press to confirm the channel selection made by [**the Number buttons**].
Digital mode:
Press to confirm the major / minor channel selection made by [**the Number buttons**].

5. DISPLAY button
Press to display the display menu on or off.

6. DISC MENU button
Press to display the disc menu.

7. OK button
Press to confirm or select menu items.

8. SETUP button
• Press to display the main menu.
• During DVD playback, press and hold for more than 3 seconds to switch the progressive scanning mode to the interlace mode.

9. PREV |◀◀ button
•During playback, press to return to the beginning of the current chapter, track or file.
• When playback is paused, press repeatedly to play back reverse step by step.

10. REW ◀◀ button
• During playback, press to fast reverse.
• When playback is paused, press to play back slow reverse.

11. CM SKIP button
During playback, press to skip 30 seconds.

12. PAUSE ❚❚ button
Press to pause playback or recording.

13. REC MODE button
Press to switch the recording mode.

14. SOURCE button
Press to select the appropriate input.

15. OPEN/CLOSE ⏏ button*
Press to open or close the disc tray.

16. CHANNEL ＋ / ― buttons
Press to change the channel up and down.

17. HDMI button
• Press to set the HDMI connector's video signal output mode.

18. CLEAR button
Press to clear the password once entered or to cancel the programming for CD or to clear the selected marker number, etc.

19. AUDIO button
• Press to switch the audio language for digital TV.
• Press to display the audio menu during playback.

20. TIMER button
Press to display the timer programming list.

21. TITLE button
Press to display the title list.

22. Cursor ▲ / ▼ / ◀ / ▶ buttons
Press to select items or settings.

23. RETURN button
Press to return to the previously displayed menu screen.

24. PLAY ▶ button*
Press to start or resume playback.

25. NEXT ▶▶| button
• During playback, press to skip to the next chapter, track or file.
• When playback is paused, press repeatedly to play back forward step by step.

26. STOP ■ button
• Press to stop playback or recording.
• Press to exit from the title list.

27. FFW ▶▶ button
• During playback, press to play back fast forward.
• When playback is paused, press to play back slow forward.

28. RAPID PLAY button
During playback, press to playback in a slightly faster/slower mode with keeping the audio quality.

29. REC button
• Press once to start a recording.
• Press repeatedly to start the one-touch timer recording.

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

Others

Español

EN 13

CONNECTION

Read this first:

1) Disconnect the AC power cords of the devices from the AC outlet.

2) Make the connection as illustrated below.

3) After making all the connections, connect the AC power cords of the devices.

- Connect this unit directly to the TV. If the RCA audio/video cables are connected to a VCR, pictures may be distorted due to the copy protection system.
- **When "Progressive Scan" is set to "ON", no video signal will be output from the VIDEO OUT or S-VIDEO OUT jack.**

Antenna Connection (Required)

rear of this unit

RF coaxial cable

ANT. IN

This connection is for TV loop through only

IN

OUT

ANTENNA

VHF / UHF antenna

RF coaxial cable

or

cable TV company
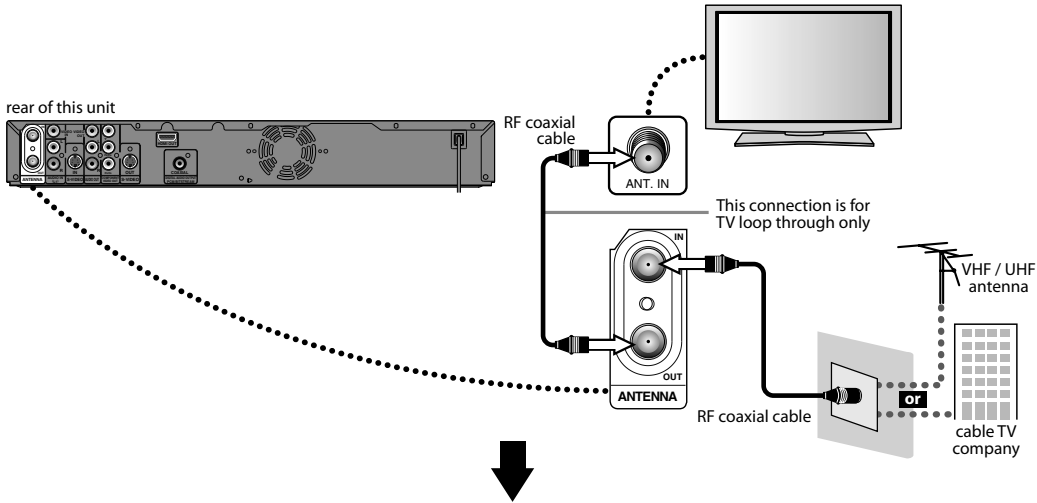
Choose one of the following connections depending on the jacks on your TV.

Note

- For your safety and to avoid damage to the device, please unplug the RF coaxial cable from the ANTENNA IN jack before moving the unit.
- If you use an antenna to receive analog TV, it should also work for DTV reception. Outdoor or attic antennas will be more effective than set-top versions.
- ANTENNA OUT jack is for tuner pass through only. DVD playback through the RF is not possible.

Supplied cables used in this connection are as follows:

• RF coaxial cable x 1
Please purchase the rest of the necessary cables at your local store.

Overview

Higher Quality ▲	If Your TV has	Refer to
	HDMI IN	page 15
	COMPONENT VIDEO IN	page 16
	S-VIDEO IN	page 16
Standard Quality	R L AUDIO IN VIDEO IN	page 17

If you are using cable / satellite box — page 18

If your device has only an ANT. IN jack

ANT. IN — page 19

Introduction

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

Others

Español
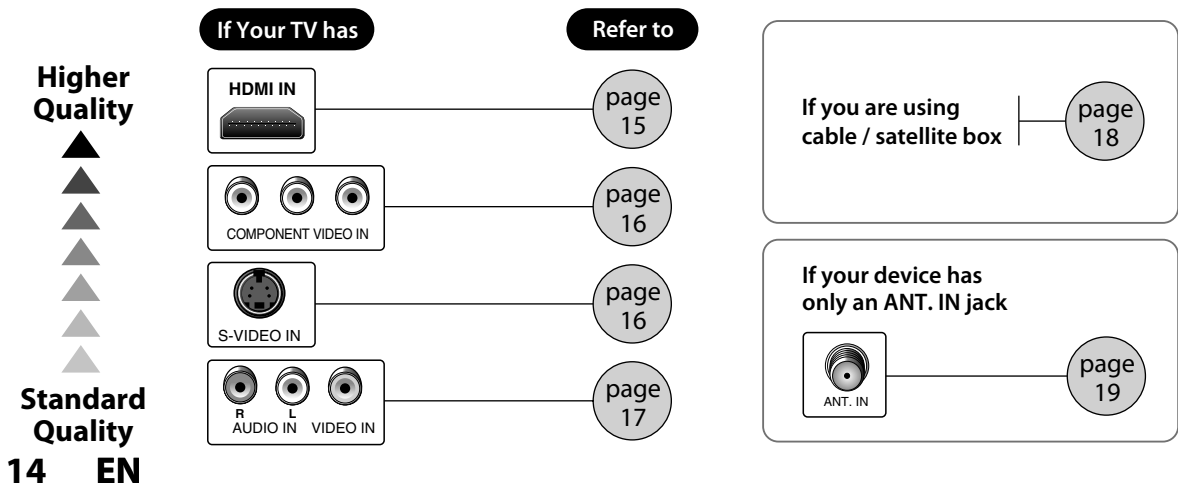
CONNECTION

Connection to a TV with an HDMI™ Compatible Port

• HDMI outputs the video / audio signals without converting to analog signals.
• No audio connection is required.
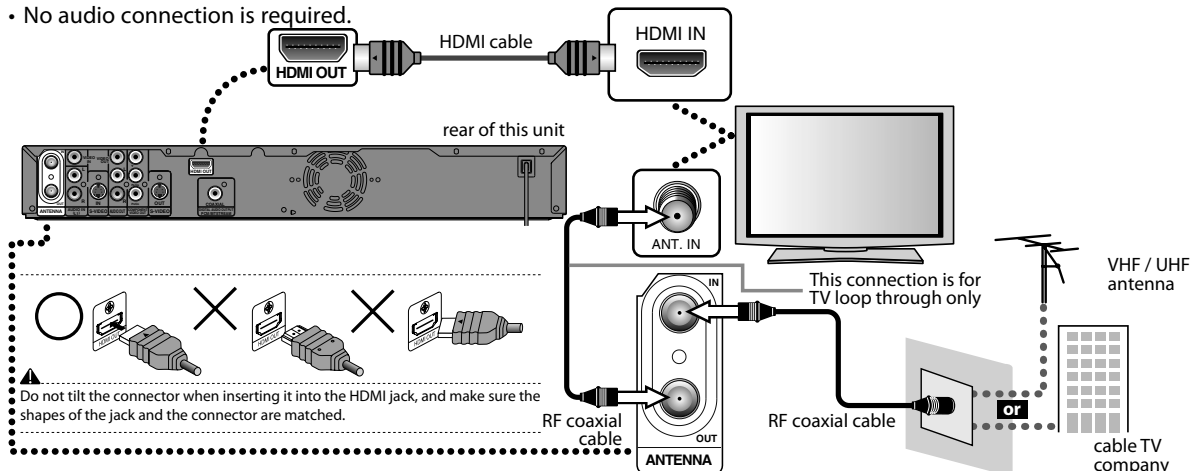
HDMI cable

HDMI IN

HDMI OUT

rear of this unit

ANT. IN

This connection is for
TV loop through only

VHF / UHF
antenna

⚠ Do not tilt the connector when inserting it into the HDMI jack, and make sure the shapes of the jack and the connector are matched.

RF coaxial cable

IN

RF coaxial cable

or

OUT

ANTENNA

cable TV
company

Supplied cables used in this connection are as follows:

• RF coaxial cable x 1
Please purchase the rest of the necessary cables at your local store.

HDMI Mode and Actual Output Signals

Press **[HDMI]** to select the HDMI output mode. The output mode changes as follows every time **[HDMI]** is pressed.

On Screen Display	Video Output Signal
480p	**480 Progressive**
Press [HDMI] ↓	
720p	**720 Progressive**
Press [HDMI] ↓	
1080i	**1080 interlaced**
Press [HDMI] ↓	
1080p	**1080 Progressive**
Press [HDMI]	

• The HDMI mode that is not supported by display device will be skipped.
• "---" will be displayed when it dose not have any information.

Copyright protection system
To play back the digital video images of a DVD via an HDMI connection, it is necessary that both the player and the display device (or an AV amplifier) support a copyright protection system called HDCP (high-bandwidth digital content protection system). HDCP is copy protection technology that comprises data encryption and authentication of the connected AV device. This unit supports HDCP. Please read the operating instructions of your display device (or AV amplifier) for more information.

*HDMI: High Definition Multimedia Interface

Note
• Some devices with an HDMI input may not operate properly with this unit.
• When using an HDCP-incompatible display device, the image will not be viewed properly.
• Among the devices that support HDMI, some devices can control other devices via the HDMI connector; this unit can be controlled by another device via the HDMI connector.
• The audio signals from the HDMI connector (including the sampling frequency, the number of channels and bit length) may be limited by the device that is connected.
• Among the monitors that support HDMI, some do not support audio output (for example, projectors). In connections with device such as this unit, audio signals are not output from the HDMI output connector.
• When this unit's HDMI connector is connected to a DVI-D compatible monitor (HDCP compatible) with an HDMI-DVI converter cable, the signals are output in digital RGB.
• When the power failure occurs, or when you unplug the unit, some problems in the HDMI setting might occur. Please check and set the HDMI setting again.

EN 15

CONNECTION

Connecting to a TV Using Component Video Out Jacks

RCA audio cable

AUDIO IN
L
R

COMPONENT VIDEO IN

VIDEO OUT

(Green)
Y
(Blue)
P_B/C_B
(Red)
P_R/C_R

RCA component cable

(Green)
Y
(Blue)
P_B/C_B
(Red)
P_R/C_R

COMPONENT VIDEO OUT

L
R
AUDIO OUT

rear of this unit

RF coaxial cable

ANT. IN

This connection is for TV loop through only

VHF / UHF antenna

IN
OUT
ANTENNA

RF coaxial cable

or

cable TV company
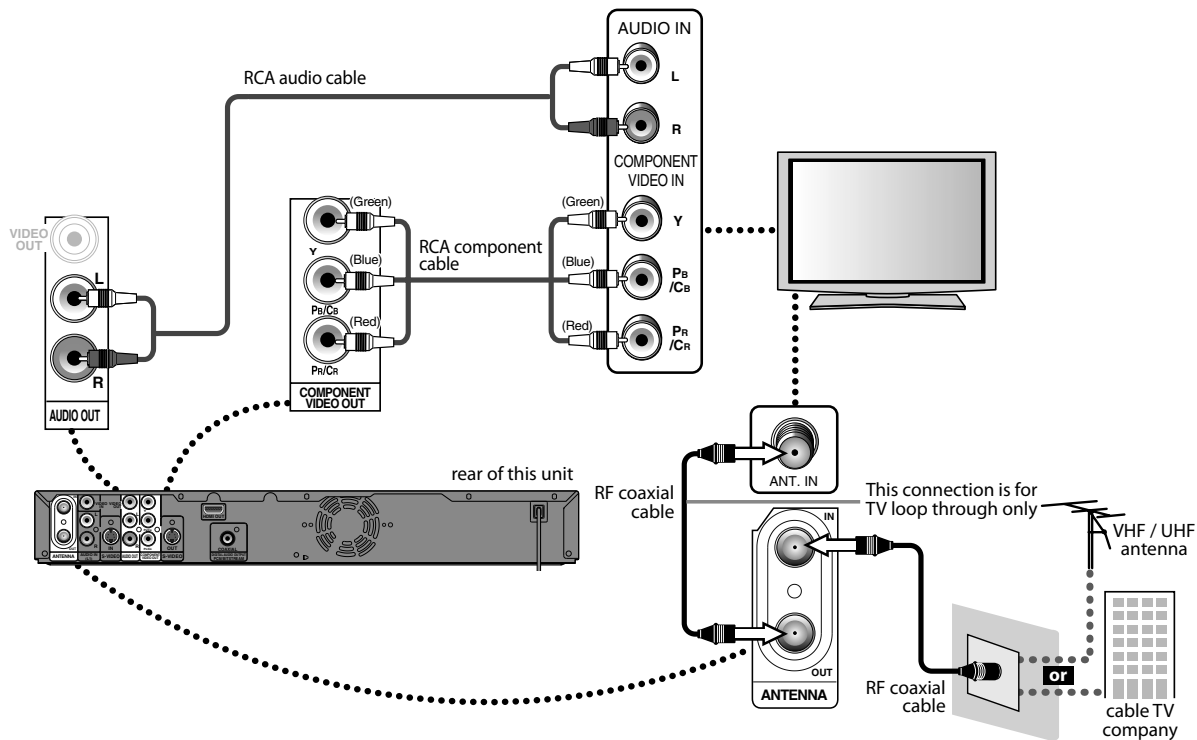
Connecting to a TV Using the S-Video Out Jack
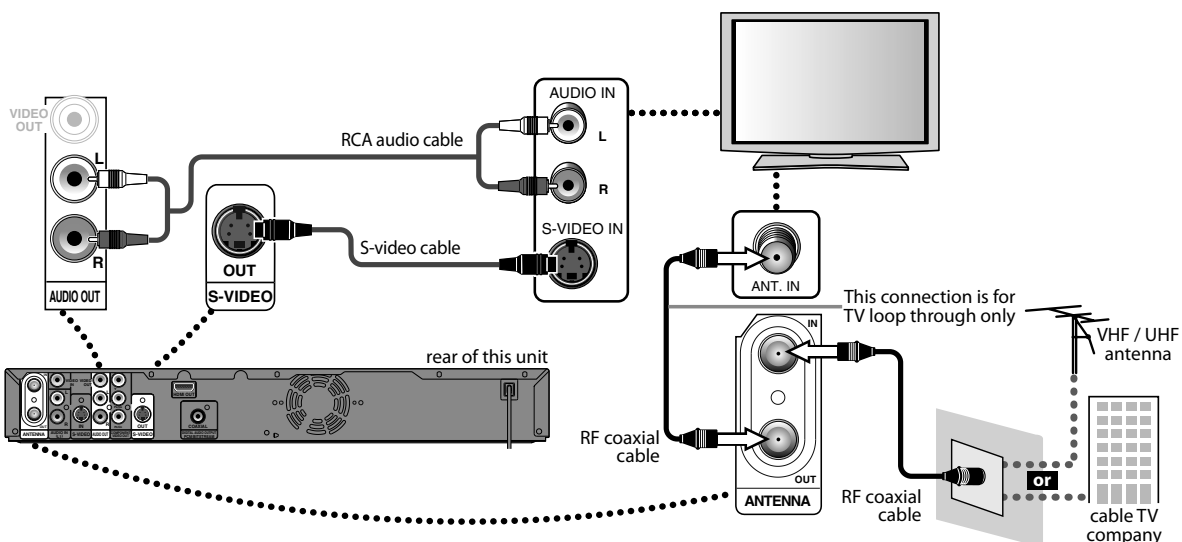
AUDIO IN
L
R

RCA audio cable

VIDEO OUT

L
R
AUDIO OUT

OUT
S-VIDEO

S-video cable

S-VIDEO IN

ANT. IN

This connection is for TV loop through only

VHF / UHF antenna

rear of this unit

RF coaxial cable

IN
OUT
ANTENNA

RF coaxial cable

or

cable TV company

Supplied cables used in this connection are as follows:

• RF coaxial cable x 1
• RCA audio cable (L/R) x 1
Please purchase the rest of the necessary cables at your local store.

16 EN

CONNECTION

Connecting to a TV Using Audio / Video Jacks
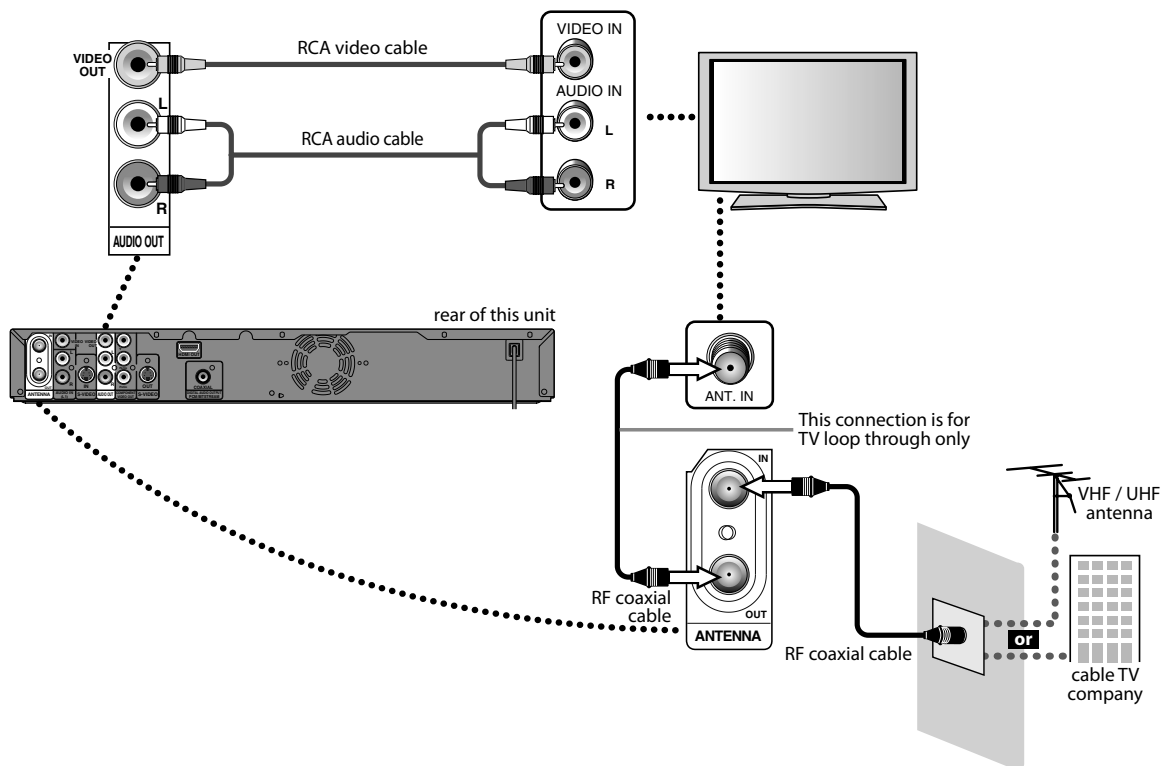
VIDEO
OUT

RCA video cable

VIDEO IN

AUDIO IN

L

RCA audio cable

L

R

R

AUDIO OUT

rear of this unit

ANT. IN

This connection is for
TV loop through only

IN

VHF / UHF
antenna

RF coaxial
cable

OUT

ANTENNA

RF coaxial cable

or

cable TV
company

Supplied cables used in this connection are as follows:

• RF coaxial cable x 1
• RCA audio cable (L/R) x 1
• RCA video cable x 1
Please purchase the rest of the necessary cables at your local store.

CONNECTION

Connecting to a Cable / Satellite Box
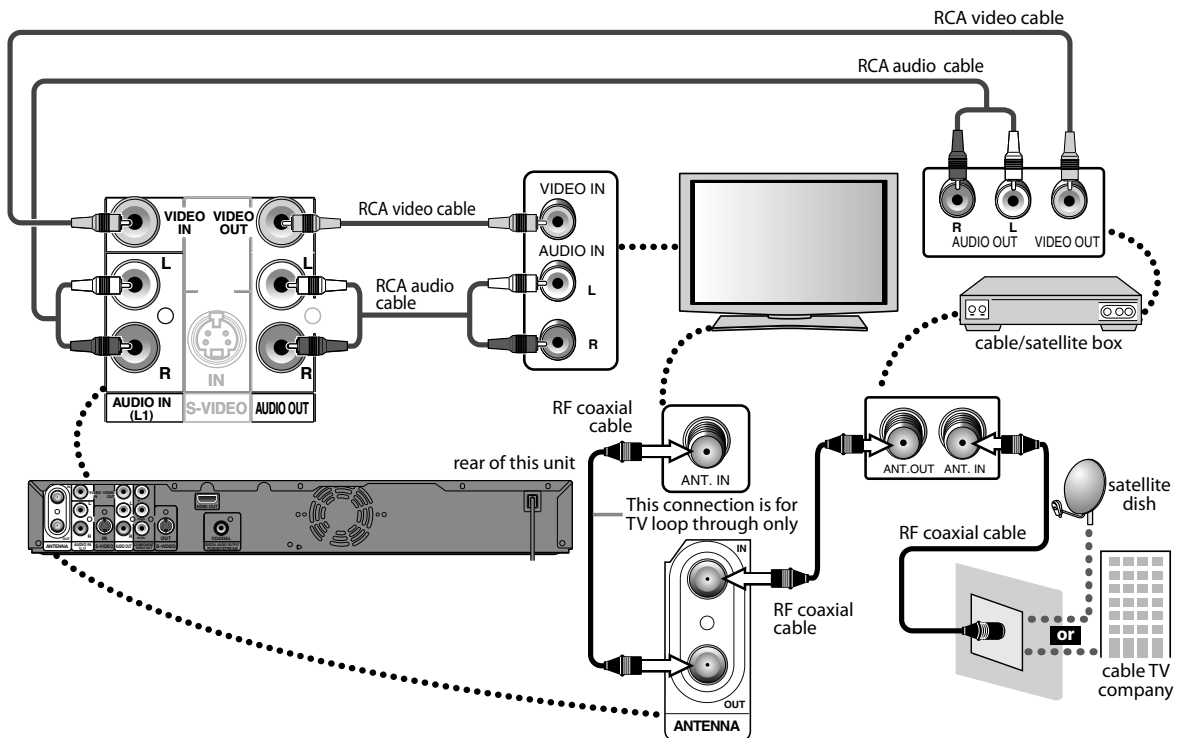
RCA video cable

RCA audio cable

VIDEO IN

VIDEO IN / VIDEO OUT

RCA video cable

AUDIO IN

L

R

AUDIO OUT   VIDEO OUT

RCA audio cable

L

R

cable/satellite box

AUDIO IN (L1)   S-VIDEO   AUDIO OUT

RF coaxial cable

ANT. IN

ANT.OUT   ANT. IN

satellite dish

rear of this unit

This connection is for TV loop through only

RF coaxial cable

IN

RF coaxial cable

or

cable TV company

OUT

ANTENNA

Supplied cables used in this connection are as follows:

• RF coaxial cable x 1
• RCA audio cable (L/R) x 1
• RCA video cable x 1
Please purchase the rest of the necessary cables at your local store.

Note

• Required cables and connecting methods differ depending on the cable/satellite box.
  For more information, please contact your cable/satellite provider.
• Instead of using VIDEO OUT jack of this unit, you can also use S-VIDEO OUT jack, COMPONENT VIDEO OUT jack or HDMI OUT jack for connecting to your TV.

With this setup:

• You can record any unscrambled channel by selecting the channel on the cable/satellite box. Be sure that the cable/satellite box is turned on.
• **You cannot record one channel while watching another channel.**

CONNECTION

Introduction

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

Others

Español

Connecting to a TV without Audio / Video Jacks
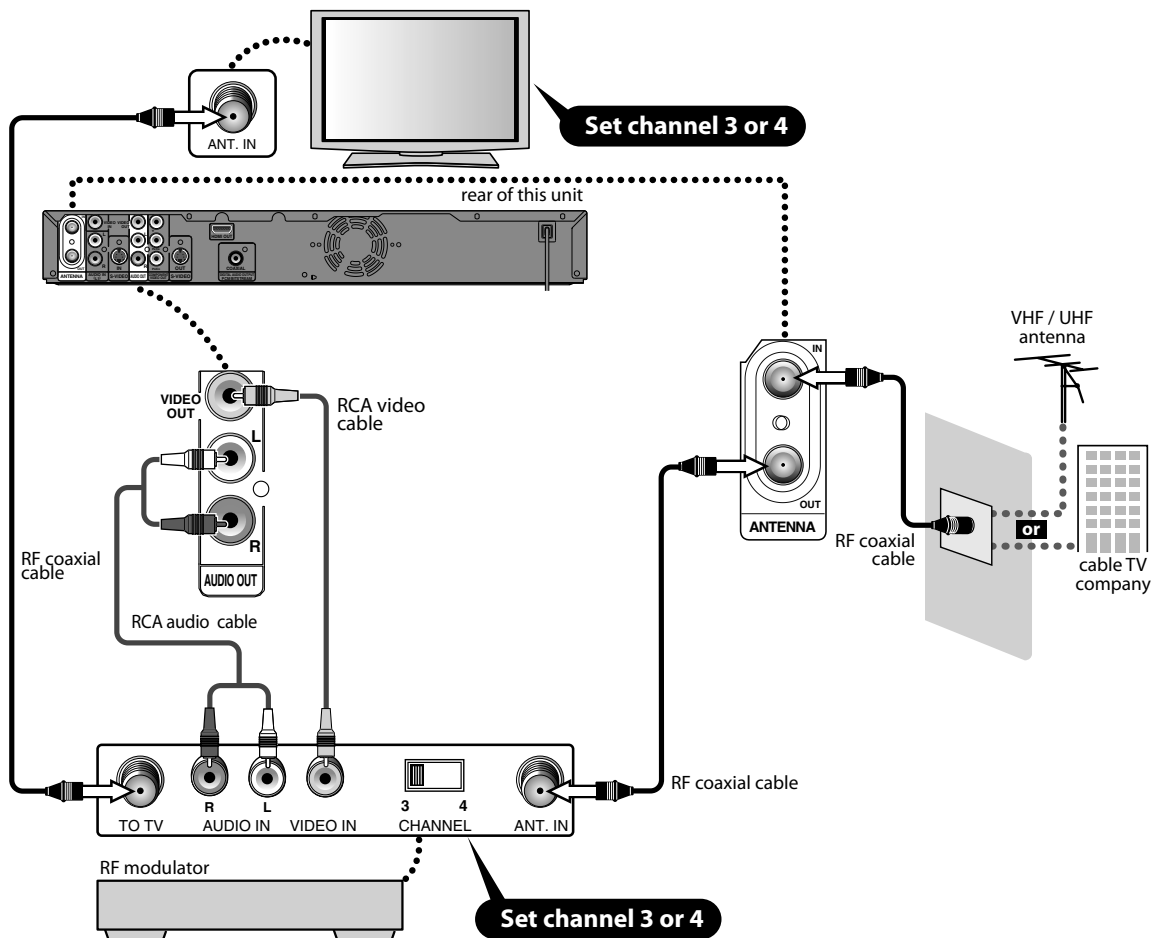
Set channel 3 or 4

rear of this unit

VHF / UHF antenna

VIDEO OUT

RCA video cable

RCA audio cable

AUDIO OUT

L

R

RF coaxial cable

ANTENNA

IN

OUT

RF coaxial cable

cable TV company

or

RF coaxial cable

R   L
AUDIO IN   VIDEO IN

3   4
CHANNEL

ANT. IN

RF coaxial cable

TO TV

RF modulator

Set channel 3 or 4

Supplied cables used in this connection are as follows:

• RF coaxial cable x 1
• RCA audio cable (L/R) x 1
• RCA video cable x 1
Please purchase the rest of the necessary cables at your local store.

Note

• **RF modulator is not supplied with this unit. You need to purchase it at your local store.**
• The quality of picture may become poor if this unit is connected to an RF modulator.

EN   19

CONNECTION

Digital Audio Connection

Coaxial Cable Connection

Dolby Digital decoder

COAXIAL

digital audio coaxial cable

COAXIAL
DIGITAL AUDIO OUTPUT
PCM/BITSTREAM

rear of this unit

digital audio coaxial input jack
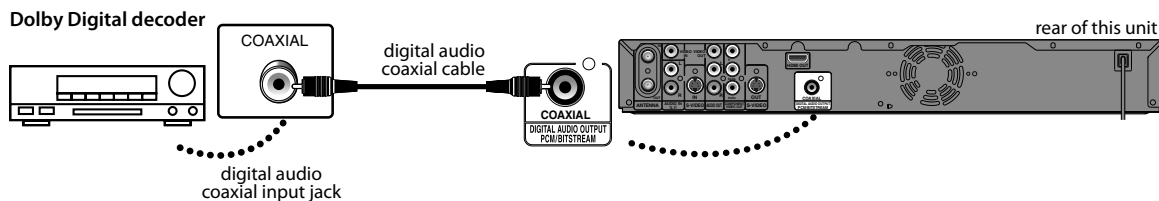
HDMI Audio Connection

AV receiver / amplifier with an HDMI input jack

HDMI IN

HDMI cable

HDMI OUT
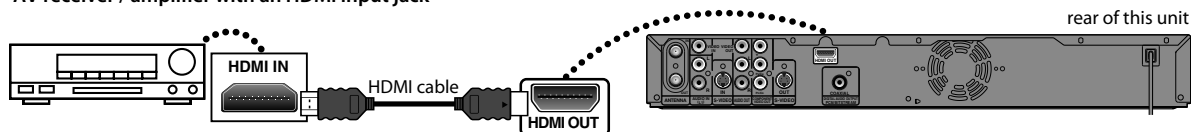
rear of this unit

To set up "HDMI Audio" refer to pages 81 and 89.

To set up "Dolby Digital" refer to pages 79 and 84.

Audio format (disc)	Dolby Digital Setting of this unit	HDMI	Digital Output
Dolby Digital	PCM	2channel PCM	2channel PCM
	Stream	Dolby Digital	Dolby Digital
LPCM	PCM	2channel PCM	———
	Stream		

Actual Output

Cables not included.
Please purchase the necessary cables at your local store.

Note
- The audio source on a disc in a Dolby Digital multi channel surround format cannot be recorded as digital sound by an MD or DAT deck.
- By connecting this unit to a Dolby Digital decoder, you can enjoy high-quality Dolby Digital multi channel surround sound as movie theaters.
- Playing back a DVD using incorrect settings may generate noise distortion and may also damage the speakers.

2 Channel Analog Audio Connection

stereo system
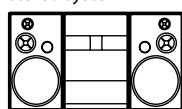
analog audio input jacks

AUDIO IN
R   L

VIDEO OUT

L

rear of this unit

RCA audio cable

R

AUDIO OUT
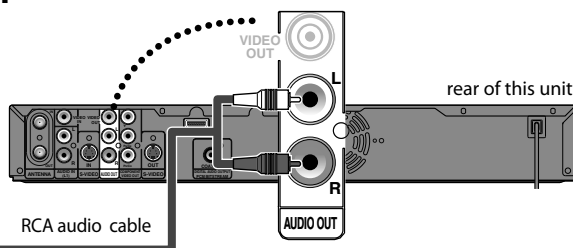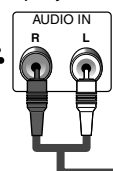
Supplied cables used in this connection are as follows:
• RCA audio cable (L/R) x 1

BEFORE YOU START

After you have completed all the connections, you must find the viewing channel (external input channel) on your TV.

Finding the Viewing Channel on Your TV
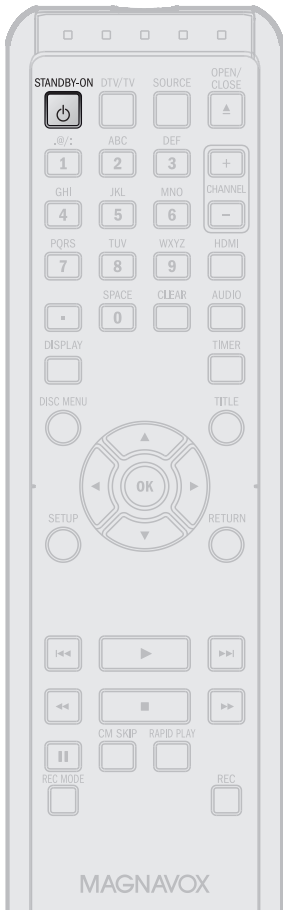
1 **After you have made all the necessary connections, press [STANDBY-ON ☉] to turn on the unit.**

2 **Turn on your TV.**
• If connected to your VCR make sure it is switched off or in standby mode before proceeding.

3 **Press "2" on the TV's remote control, then press channel down button repeatedly until you see "Initial Setup" menu.**

```
Initial Setup

            OSD Language
               English
               Français
               Español


Select the language for Setup display.
```
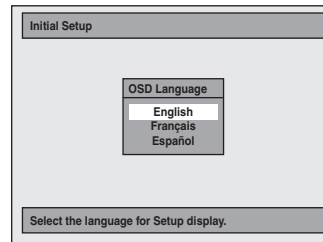
This is the correct viewing channel (external input channel) for the recorder.

• For some TVs, there may be a button on the TV's remote control that accesses the external input channel. It may be labeled **"SOURCE"**, **"AV"**, or **"SELECT"**. In such case, press it repeatedly. Refer to your TV's user manual for details.
• If more than 10 minutes have passed since you have turned on the unit, you may see the MAGNAVOX screen saver instead of "Initial Setup" menu.

MAGNAVOX screen saver:

```

            MAGNAVOX


```

Input Mode Names for Common TV Brands (Example)			
Admiral	AUX	Panasonic	TV/VIDEO
Curtis Mathis	LINE1, LINE2, 00, 90, 91, 92, 93	RCA	INPUT, TV/VCR, 00, 90, 91, 92, 93
GE	INPUT, TV/VCR, 00, 90, 91, 92, 93	Samsung	TV/VIDEO
Hitachi	INPUT, AUX	Sanyo	VIDEO
JVC	VIDEO, VIDEO 1, VIDEO 2, VIDEO 3	Sharp	00
Kenwood	AUX	Sony	VIDEO1, VIDEO2, VIDEO3
LXI-Series	00	Toshiba	TV/GAME
Magnavox	AUX CHANNEL	Zenith	00

4 **Proceed to step 2 in "INITIAL SETTING" on page 25.**

Note
• Video input selection varies for different brand's models of TVs.
• Consult your TV manufacturer if none of the above is successful.

BEFORE YOU START

This unit uses the following on-screen displays and menus to guide you to the easy operations.
The on-screen displays give you the information on the loaded disc, the disc/file in playback, or the HDMI status, etc.
The menus allow you to change the various kinds of settings for playing back, recording, or editing to suit your preference.

Guide to On-Screen Display / Menu

The on-screen display changes in the following order as you press [DISPLAY].

OFF
↓
DTV Program Guide (only in DTV mode)
↓
Disc Information/Menu
↓
Title Name Information
(only when DVD+RW/DVD+R/DVD-RW/DVD-R
is in playback)

or

File Name Information
(only when a CD with MP3 / JPEG / Kodak picture CD files
is in playback)
↓
MP3 Tag Information
(only when an MP3 file is in playback)
↓
HDMI Information
(only for the images output through the HDMI output)
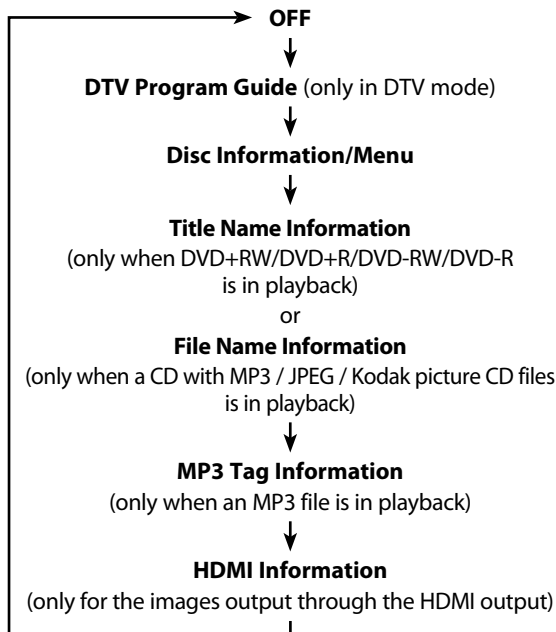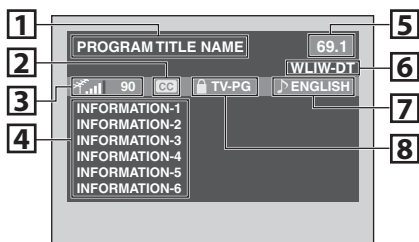
DTV Program Guide

1. Program title (max. 2 lines displayed)
2. Closed Caption (Indicates that the program being broadcast is available with closed captioning.)
3. Signal strength (Indicates the signal strength of the current channel.)
4. Program guide (max. 6 lines displayed)
5. Channel number
6. Broadcast station
7. Audio language ("Other" is displayed when the audio language cannot be acquired, or the acquired languages are other than English, Spanish or French.)
8. Program rating

Note

- When the program guide is displayed in more than 7 lines, use **[▲ / ▼]** to scroll.
- "No description provided." is displayed when the program guide is not provided.

Disc Information / Menu
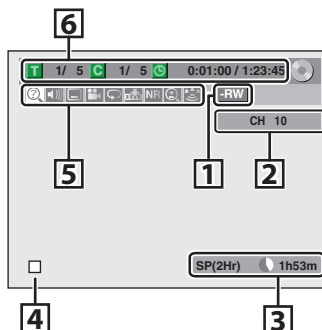
* This is an example screen only for explanation. Displayed items vary depending on the disc you inserted.

1. Indicates a disc type.
2. Indicates a channel number or selected external input channel.
3. Indicates a recording mode and possible recording time left.
4. Indicates an operation status.
5. Each icon means:

   ⊘ : Search ⛾ : Marker
   ◀))) : Audio NR : Noise Reduction
   ☐ : Subtitle ⊕ : Zoom
   📷 : Angle ⛾ : Surround
   ↻ : Repeat

6. Indicates the current title number/total number of titles, the current chapter number/total number of chapters, and time lapse of the current title playback/ total duration of the title.

Title/File Name Information

Title Name Information

File Name Information
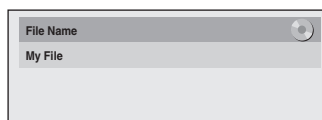
MP3 Tag Information

• First, track name will be displayed.

Track Name

↓
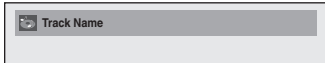
• If you press **[DISPLAY]** one more time, artist name will be displayed.

Artist Name

↓

• If you press **[DISPLAY]** one more time, album name will be displayed.

Album Name

• If there is no artist, track or album name, "Not Available" will be displayed.

HDMI Information

|1| |2|

Video Info. : 480p / YCbCr
Audio Info. : Bitstream

|3|

|4|
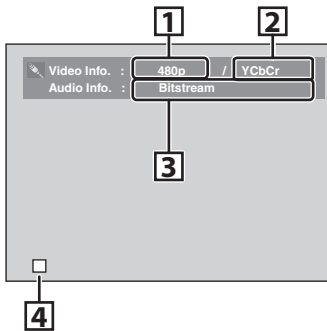
*1. Indicates the resolution of the HDMI output image.
*2. Indicates the HDMI video format.
*3. Indicates the HDMI audio format.
 4. Indicates current disc status.
* "- - -" will be displayed, when it does not have any information.

Main Menu

Press **[SETUP]** to display the main menu. Then use **[▲ / ▼]** to select a menu and press **[OK]** to display the menu. These menus provide entries to all main functions of the unit.

```
    Setup
1   General Setting
2   Timer Programming
3   Title List
4   Disc Edit
5   DISC Playback Mode
```
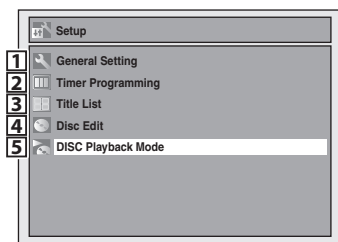
1. **General Setting:**
   To go to general setting menu.
2. **Timer Programming:**
   To program a timer recording.
3. **Title List:**
   To call up the title list.
4. **Disc Edit:**
   To set up the DVD setting.
5. **DISC Playback Mode:**
   To set up the disc playback setting.
   • "DISC Playback Mode" is available only when an audio CD, a video CD, a CD-RW/-R with MP3 / JPEG / Kodak picture CD files is inserted into the unit.

General Setting Menu

```
1   General Setting
2   Playback          ▶
3   Display               Parental Lock      ▶
4   Video                 Disc Audio
5   Recording             Disc Menu Language
6   Clock                 Audio Language
7   Channel               Subtitle Language
8   HDMI                  Angle Icon
    Reset All             Still Mode
```
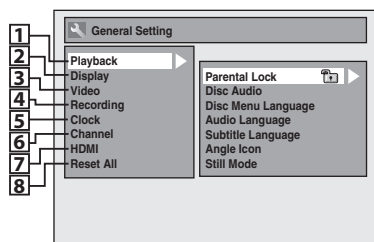
1. **Playback:**
   To set up the unit to play back discs as you prefer.
2. **Display:**
   To set up the OSD screen as you prefer.
3. **Video:**
   To set up the video setting.
4. **Recording:**
   To set up the unit to record to discs as you prefer.
5. **Clock:**
   To set up the clock of the unit as you need.
6. **Channel:**
   To adjust the channel setting of the unit as you prefer.
7. **HDMI:**
   To set up the HDMI connection setting.
8. **Reset All:**
   To reset the setting to the factory default.

Disc Edit / DISC Playback Mode

<Disc Edit menu (DVD+RW)>

```
    Disc Edit
1   Edit Disc Name
2   Erase Disc
3   Make Edits Compatible
4   Disc Protect OFF ⇨ ON
```

<Disc Edit menu (DVD-RW)>

```
    Disc Edit
1   Edit Disc Name
2   Erase Disc
3   Finalize
4   Disc Protect OFF ⇨ ON
```

<Disc Edit menu (DVD+R/DVD-R)>

```
    Disc Edit
1   Edit Disc Name
3   Finalize
4   Disc Protect OFF ⇨ ON
```

<DISC Playback Mode menu (audio CD/VCD)>

```
    DISC Playback Mode
5   Random Play
6   Program Play
7   PBC (Video CD only)
```

<DISC Playback Mode menu (MP3/JPEG)>

```
    DISC Playback Mode
8   Music
9   Photo              ▶
                          Random Play
5                         Slide Show
10
```
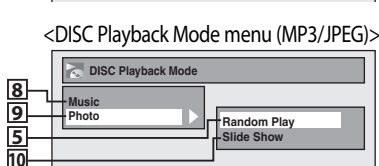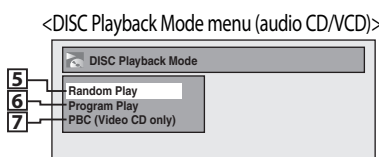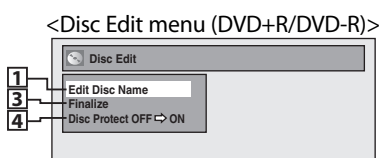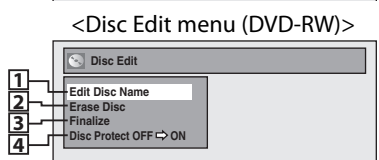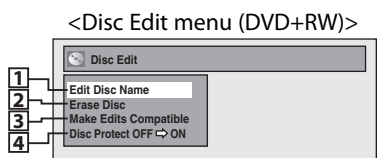
1. **Edit Disc Name:**
   Allows you to rename the disc.
2. **Erase Disc:** (DVD+RW/DVD-RW only)
   Allows you to erase all contents in the disc and format it.
3. **Make Edits Compatible:** (DVD+RW only)
   Allows you to memorize the editing status on the disc if you have added or deleted chapters, or made chapters hidden on this unit, and to effect it when playing back on the other unit.
   Finalize: (DVD+R/DVD-RW/-R only)
   Allows you to finalize a disc containing recorded titles.
4. **Disc Protect :**
   Allows you to protect a disc from accidental editing or recording.
5. **Random Play:**
   Allows you to activate the random playback feature.
6. **Program Play:** (Audio CD only)
   Allows you to activate the program playback feature.
7. **PBC (Video CD only):**
   Allows you to select images or information on the menu screen by activating PBC (playback control) function.
8. **Music:**
   Allows you to make setting for MP3 playback.
9. **Photo:**
   Allows you to make setting for JPEG playback.
10. **Slide Show:** (JPEG files only)
    Allows you to select the display time of the slide show mode.

INITIAL SETTING

You need to follow these steps when you turn on this unit for the first time.

1 **Follow the procedure in "Finding the Viewing Channel on Your TV" on page 21 to display "Initial Setup" menu.**

2 **Use [▲ / ▼] to select your desired language, then press [OK].**
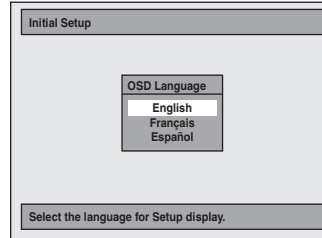
Initial Setup

OSD Language
English
Français
Español

Select the language for Setup display.

3 **Use [▲ / ▼] to select the type of broadcasting signal, then press [OK].**

Initial Setup

Channel Preset
Make sure the antenna is
connected to "ANTENNA IN" jack.
Antenna
Cable (Analog)
Cable (Analog / Digital)

Auto Preset will scan all terrestrial channels.
This may take a while to complete.
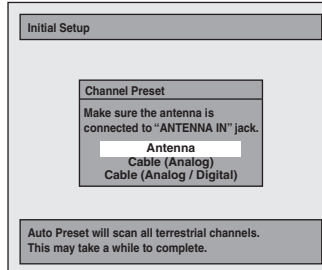
The unit will start getting channels available in your area.
Antenna:
(When using antenna)
The channels broadcasted in analog TV and digital TV are automatically scanned and memorized. Only the receivable channels in the area will be memorized.
Cable (Analog):
(When using basic cable)
The channels broadcasted in analog CATV are automatically scanned and memorized.
Cable (Analog / Digital):
(When using basic cable)
The channels broadcasted in analog CATV and digital CATV are automatically scanned and memorized.

CH   1

Auto Presetting Now

4 If a PBS (public broadcasting station) is available in your area, clock setting will automatically be performed and the correct clock will be displayed following the channel preset procedure.
Initial setting is then complete.
Press **[RETURN]** to exit.

If a PBS (public broadcasting station) is not available in your area, press **[OK]**. Then proceed to step 5 in"Manual Clock Setting" on page 30.

CHANNEL SETTING

If you have changed antenna connection, we recommend that you program available channels in your area with the following procedures.

Auto Channel Scan

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**
"General Setting" menu will appear.

2 **Use [▲ / ▼] to select "Channel", then press [OK].**
"Channel" menu will appear.

3 **Use [▲ / ▼] to select "Auto Channel Preset", then press [OK].**

4 **Use [▲ / ▼] to select the type of broadcasting signal, then press [OK].**

Auto Channel Preset
Antenna
Cable (Analog)
Cable (Analog / Digital)
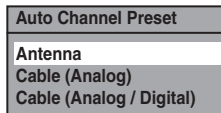
The unit will start getting channels available in your area.
• When aerial antenna is connected, select "Antenna".
• When connected to CATV, select "Cable (Analog)" or "Cable (Analog / Digital)".
To cancel the auto channel preset during scanning:
Press **[RETURN]** to go the previous screen or **[SETUP]** to cancel.

5 **When scanning is over, press [SETUP] to exit.**

To cycle through only the memorized channels, use **[CHANNEL ＋ / －]**.
To select a channel directly (including the ones not memorized), use **[the Number buttons]** and **[•]** (for digital TV channels).

Note
• If the auto channel preset is canceled during presetting, some channels not yet preset may not be received.

CHANNEL SETTING

Adding / Deleting Channels

You may want to add or delete TV channels if your channel lineup changes or if you no longer watch some channels.

Adding channel is only available for the analog TV channels.

Make sure

• You perform "Auto Channel Scan" before adding or deleting the channels.

1 **Press [DTV/TV] to select the mode (DTV or TV) to/from which you want to add/delete channels.**

2 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**

"General Setting" menu will appear.

3 **Use [▲ / ▼] to select "Channel", then press [OK].**

"Channel" menu will appear.

4 **Use [▲ / ▼] to select "Manual Channel Preset", then press [OK].**

Auto Channel Preset
Manual Channel Preset
TV Audio Select

• If you are adding or deleting analog TV/CATV channels, go to **ANALOG** to continue.
• If you are deleting digital TV/CATV channels, go to **DIGITAL** to continue.

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CHANNEL SETTING

5 **Select the channel number to add or delete.**
- Use **[CHANNEL ＋ / ─]** to cycle through only the memorized channels.
- Use **[◄ / ►]** to cycle through all the channels including the ones not memorized.
- Use **[the Number buttons]** to select a channel directly.
- When a memorized channel is selected, "Add" is checked and highlighted as a default.
- When an unmemorized channel is selected "Delete" is checked and highlighted as a default.

6 **Use [▲ / ▼] to select "Add" or "Delete", then press [OK].**

CH Manual Channel Preset

```
          CH   2
    ✔   Add
        Delete
```
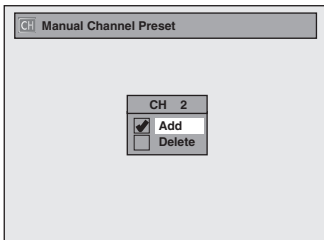
Your setting will be activated and it will automatically switch to the next channel so that you can continue adding or deleting channels.

7 **Press [SETUP] to exit.**

5 **Select the channel number to delete.**
- Only the major channel is displayed in "Manual Channel Preset" menu. (The channel number displayed in the parenthesis is a virtual channel number)
- Use **[CHANNEL ＋ / ─]** to cycle through only the memorized channels.
- You cannot use **[◄ / ►]** for the digital TV channel selection.
- Use **[the Number buttons]** to select a channel directly.
- When a memorized channel is selected, "Add" is checked and highlighted as a default.
- When an unmemorized channel is selected "Delete" is checked and highlighted as a default.

6 **Use [▲ / ▼] to select "Delete", then press [OK]. Then select the next channel to delete.**
- If the setting is complete, press **[RETURN]** to activate "Manual Channel Preset".

CH Manual Channel Preset

```
       DTV   2 (CH - - - )
    ✔   Add
        Delete
```
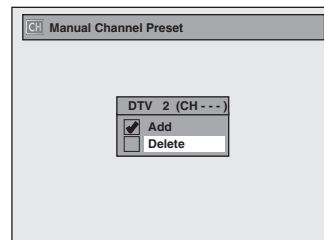
Your setting will be activated.

WARNING:
- For the digital TV channels, you cannot recover the deleted channels once they are deleted unless you perform the auto channel preset again.

7 **Press [SETUP] to exit.**

SETTING THE CLOCK

Set the clock before you try the timer programming. If a PBS (public broadcasting station) is available in your area, follow "Auto Clock Setting" below. If not, follow "Manual Clock Setting" on page 30.

Auto Clock Setting

This unit can set the time and date automatically by referring to a PBS station.

Make sure
• The antenna/cable TV connections are correct.
• Channels are set. (Refer to page 26.)
• If this unit is connected to a cable/satellite box, select the local PBS station on them to set the clock automatically.

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**
"General Setting" menu will appear.

2 **Use [▲ / ▼] to select "Clock", then press [OK].**
"Clock" menu will appear.

3 **Use [▲ / ▼] to select "Auto Clock Setting", then press [OK].**

4 **Use [▲ / ▼] to select "Auto", then press [OK].**

Auto Clock Setting
☐ OFF
☑ Auto
☐ Manual
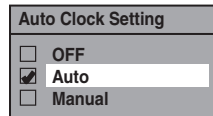
5 **Press [SETUP] to exit.**

6 **Press [STANDBY-ON ⏻] to turn the unit to the standby mode.**
This unit will search for the time only when the power is in the standby mode. Leave it in standby for several minutes to give this unit time to set the clock.

If the unit chooses an incorrect PBS channel, set the PBS channel manually by following the steps below.

1 **Select "Manual" at step 4, then press [OK].**

2 **Use [the Number buttons] or [▲ / ▼] to enter your PBS channel number, then press [OK].**

Set Channel No.
CH   1

3 **Press [SETUP] and turn the unit to the standby mode.**

Note
• The clock may set itself automatically after you connect the antenna/cable signal and plug in the power cord.
• Only the analog PBS channel signal is effective for auto clock setting.
• The unit receives the clock data at 12:00 a.m. / p.m. from the PBS channel when the unit is in the standby mode.

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SETTING THE CLOCK

Manual Clock Setting

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**
"General Setting" menu will appear.

2 **Use [▲ / ▼] to select "Clock", then press [OK].**
"Clock" menu will appear.

3 **Use [▲ / ▼] to select "Clock Setting", then press [OK].**

4 **Use [▲ / ▼] to select calendar or time, then press [OK].**

Clock Setting
JAN / 01 / 2009 (THU)
12 : 00 AM
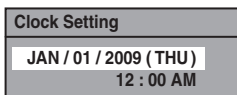
5 **Use [◄ / ►] to select an item to set, and use [▲ / ▼] to select the contents to suit your preference, then press [OK] when you finish setting all the contents.**

Clock Setting
JAN / 01 / 2009 (THU)
12 : 00 AM
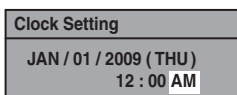
Your setting will be activated.
The clock start counting when you press **[OK]**.

6 **Press [SETUP] to exit.**

Daylight Saving Time

When "Daylight Saving Time" is "ON", the unit clock will automatically adjust the time in order to fit the daylight saving time.
"ON (MAR - NOV)" has been selected as the default.

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**
"General Setting" menu will appear.

2 **Use [▲ / ▼] to select "Clock", then press [OK].**
"Clock" menu will appear.

3 **Use [▲ / ▼] to select "Daylight Saving Time", then press [OK].**

4 **Use [▲ / ▼] to select "ON (MAR - NOV)", "ON (APR - OCT)" or "OFF", then press [OK].**

Daylight Saving Time
☑ ON (MAR - NOV)
☐ ON (APR - OCT)
☐ OFF
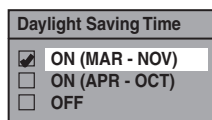
ON (MAR - NOV):
Move forward one hour on the second Sunday in March and move back one hour on the first Sunday in November.

ON (APR - OCT):
Move forward one hour on the first Sunday in April and move back one hour on the last Sunday in October.

5 **Press [SETUP] to exit.**

Note
- Your setting will be canceled if you press **[SETUP]** before pressing **[OK]** at step 5.
- Your clock setting will be lost if either there is a power failure or this unit has been unplugged for more than 30 seconds when you set the clock manually.
- For setting the day, year, hour, and minute, **[the Number buttons]** can also be used.
- You can set the built-in calendar from the year 2008 up to 2058.

TUNER SETTINGS

Switching Analog Mode / Digital Mode

You can easily switch the analog TV (NTSC) and digital TV (ATSC) with the remote control.

Press [DTV/TV] on the remote control.
• The analog mode and digital mode switch alternately.

Channel Selection

Select channels by using **[CHANNEL ＋ / －]** or **[the Number buttons]** found on remote control.

[CHANNEL ＋ / －]
Use **[CHANNEL ＋ / －]** to change the channel.

[the Number buttons]
Press the channel number with **[the Number buttons]** to select a channel you want to watch.

<Analog TV Channels>
Enter the channel number with **[the Number buttons]** to select a channel you want to watch.
For 1-digit number
e.g.) 2 ch: **[0]** + **[2]**, **[2]** + **[•]** or
                     [2] + leave it for 2 seconds.
For 2-digit number
e.g.) 12ch: **[1]** + **[2]**

<Digital TV Channels>
Enter the major and minor channel number with **[the Number buttons]** to select a channel you want to watch.
For 1-digit number
e.g.) 2.2 ch:
major channel   **[0]** + **[2]** or **[2]** + **[•]**
minor channel   **[0]** + **[2]**, **[2]** + **[•]** or
                     [2] + leave it for 2 seconds.
For 2-digit number
e.g.) 35.16ch:
major channel   **[3]** + **[5]**
minor channel   **[1]** + **[6]**

• If you enter 1 digit for major channel and leave it for 2 seconds, the number will be taken as the major channel and lowest minor channel of the major channel will be displayed.
• If there is no minor channel input, lowest minor channel of the major channel will be displayed.

Note
• It may take up to 5 to 7 seconds to switch the digital TV channels.
• In digital TV broadcasting, 2 or more channels, called minor channels, are simultaneously broadcast on one main channel, called major channel.

About digital TV broadcasting:
With its high definition broadcast, digital broadcasting far surpasses analog broadcasting in both its picture and sound quality.

What is the minor channel?
By using high compression technology, digital broadcasting offers a service that enables multiple signals to send simultaneously.

Therefore, you can select more than one program per major channel since digital broadcasting technology distinguishes between multiple channels broadcast by a single network.

major channel   minor channel
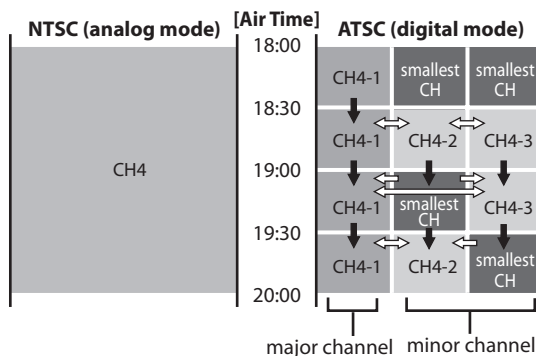
➡ : change automatically
⇨ : change manually by using **[CHANNEL ＋/－]**

TUNER SETTINGS

This section describes how to switch the TV audio. When you record a TV program, only the audio selected here will be recorded.

Selecting TV Audio

Digital TV

1 **Press [AUDIO] to cycle through available audio languages.**
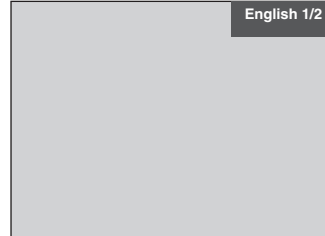
English 1/2

- When you press **[AUDIO]**, selected language will be displayed on the TV screen.
- Every time you press **[AUDIO]**, the language will be switched.
  e.g.) English 1/3 ➜ Spanish 2/3 ➜ Other 3/3
- Available languages differ depending on the broadcast.
- The language information display will automatically disappear.
- When you record digital TV broadcasting, the audio language you have selected will be recorded.

Note
- You cannot change the audio language for the recording of digital TV broadcasting.
- Pressing **[AUDIO]** does not control external device audio.
- When there is only one audio channel on the broadcast, pressing **[AUDIO]** does not display anything.

Selecting TV Audio (cont'd)

Analog TV

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**
"General Setting" menu will appear.

**2** **Use [▲ / ▼] to select "Channel", then press [OK].**
"Channel" menu will appear.

3 **Use [▲ / ▼] to select "TV Audio Select", then press [OK].**

4 **Use [▲ / ▼] to select "Stereo" or "SAP", then press [OK].**

TV Audio Select
☑ Stereo
☐ SAP
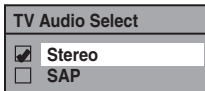
Stereo:
Outputs main-audio.
SAP (secondary audio program):
Outputs sub-audio.

5 **Press [SETUP] to exit.**

Note on recording analog TV audio
• When you record an analog TV program available in second audio or stereo, you have to select either "Stereo" or "SAP" in "General Setting" menu beforehand. Refer to the following table to check an appropriate setting.

Selected audio	Broadcast audio	Disc recording	Audio output
Stereo	STEREO+SAP	STEREO	STEREO
	STEREO	STEREO	STEREO
	MONO+SAP	MONO	MONO
	MONO	MONO	MONO
SAP	STEREO+SAP	SAP	SAP
	STEREO	STEREO	STEREO
	MONO+SAP	SAP	SAP
	MONO	MONO	MONO

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DTV Closed Caption

Digital TV

Digital TV has its own closed captions called DTV CC. Use this menu to change the settings for DTV CC.

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**
"General Setting" menu will appear.

2 **Use [▲ / ▼] to select "Display", then press [OK].**

3 **Use [▲ / ▼] to select "DTV CC", then press [OK].**

> OSD Language
> Screen Saver
> DTV CC ▶
> CC Style
> V-Chip
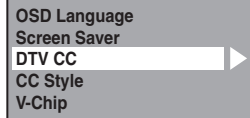
4 **Use [▲ / ▼] to select "Caption Service", then press [OK].**

> **DTV CC**
> Caption Service ▶
> Recording

5 **Use [▲ / ▼] to the desired DTV closed caption, then press [OK].**

> **Caption Service**
> ☑ OFF
> ☐ Service1
> ☐ Service2
> ☐ Service3
> ☐ Service4
> ☐ Service5
> ☐ Service6

OFF:
Select if you do not want DTV CC. This is the default.

Service 1 to Service 6:
Select one of these before changing any other item in the closed caption menu. Choose "Service 1" under normal circumstances.

6 **Press [SETUP] to exit.**

Closed Caption Style

Digital TV

Digital TV can also change the style of its closed caption such as font, color or size, etc.

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**
"General Setting" menu will appear.

2 **Use [▲ / ▼] to select "Display", then press [OK].**

3 **Use [▲ / ▼] to select "CC Style", then press [OK].**

> OSD Language
> Screen Saver
> DTV CC
> **CC Style**
> V-Chip

4 **Use [▲ / ▼] to select "User Setting", then press [OK].**

> **CC Style**
> **User Setting**
> Font Size
> Font Style
> Font Opacity
> Font Color
> Edge Type
> Edge Color
> Back Opacity
> Back Color

5 **Use [▲ / ▼] to select "ON", then press [OK].**

> **User Setting**
> ☐ ON
> ☑ OFF

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6 **Use [▲ / ▼] to select the item and switch the setting for each item you want to set, then press [OK].**
- When "User Setting" is set to "ON", you can set the following items. CC style set by "User Setting" will be displayed.
- The setting description for each item is shown below.

<Font Size>

Font size of the displayed caption can be switched as below.

Font Size
☑ **Large**
☐ Middle
☐ Small

<Font Style>

Font style of the displayed caption can be switched as below.

Font Style
☑ **Style1**
☐ Style2
☐ Style3
☐ Style4
☐ Style5
☐ Style6
☐ Style7
☐ Style8

<Font Opacity>

Font opacity of the displayed caption can be switched as below.

Font Opacity
☑ **Solid**
☐ Transparent
☐ Translucent
☐ Flash

<Font Color>

Font color of the displayed caption can be switched as below.

Font Color
☑ **White**
☐ Black
☐ Red
☐ Green
☐ Blue
☐ Yellow
☐ Magenta
☐ Cyan

<Edge Type>

Edge type of the displayed caption can be switched as below.

Edge Type
☑ **None**
☐ Raised
☐ Depressed
☐ Uniform
☐ L.Shadow
☐ R.Shadow

<Edge Color>

Edge color of the displayed caption can be switched as below.

Edge Color
☐ White
☑ **Black**
☐ Red
☐ Green
☐ Blue
☐ Yellow
☐ Magenta
☐ Cyan

<Back Opacity>

Background opacity of the displayed caption can be switched as below.

Back Opacity
☑ **Solid**
☐ Transparent
☐ Translucent
☐ Flash

<Back Color>

Background color of the displayed caption can be switched as below.

Back Color
☐ White
☑ **Black**
☐ Red
☐ Green
☐ Blue
☐ Yellow
☐ Magenta
☐ Cyan

7 **Press [SETUP] to exit.**

INFORMATION ON DVD RECORDING

Before you make a recording, read the following information.

Recordable Discs

This unit can record to DVD+RW, DVD+R, DVD-RW and DVD-R.
DVD+R/DVD-R can only be recorded to once. DVD+RW/DVD-RW can be recorded to and erased many times.
DVD-RW/-R will be recorded in the DVD+VR mode automatically in this unit.

Logos	Attributes
RW DVD+ReWritable **RW** DVD+R **DVD+RW** **DVD+R**	8cm/12cm, single-sided, single layer disc
DVD R W **DVD** R **DVD-RW** **DVD-R**	Approx. max. recording time (SLP mode): 360 minutes (4.7GB) (for 12cm) 108 minutes (1.4GB) (for 8cm)

• Following discs are recommended for good recording quality and are proven to be compatible with this unit. However, depending on the media condition the unit may not read the disc properly.

Verbatim	DVD+R 8x,	DVD+RW 4x,
	DVD-R 8x,	DVD-RW 2x
JVC	DVD-RW 4x	
Maxell	DVD+R 4x/8x/16x,	DVD-R 8x/16x
SONY	DVD+R 4x/8x/16x,	DVD+RW 4x
TDK	DVD+R 4x/8x/16x	

Performance of any other discs are not guaranteed.

• **You can play back DVD+RW on most DVD players without finalizing. However, if you have added or deleted chapters, or made chapters hidden, you must perform "Make Edits Compatible" before being able to see those effects on other units. (Refer to page 78 for more details.) To play back discs other than DVD+RW on other DVD players, you will need to finalize.**

Unrecordable Discs

• DVD-RW recorded in the mode other than +VR is not recordable on this unit unless you erase all contents in the disc (refer to page 77).
• DVD-R recorded in the mode other than +VR is not recordable on this unit.

Recording Mode

You can select a recording mode among 6 options, and the recording time will depend on the recording mode you select as follows.

Disc size	Recording mode	Recording time	Video/sound quality	
8cm Disc	**HQ (1Hr)**	18 min	☆☆☆☆☆☆	**(good)**
	SP (2Hr)	36 min	☆☆☆☆☆	
	SPP (2.5Hr)	45 min	☆☆☆☆	
	LP (3Hr)	54 min	☆☆☆	
	EP (4Hr)	72 min	☆☆	
	SLP (6Hr)	108 min	☆	**(poor)**
12cm Disc	**HQ (1Hr)**	60 min	☆☆☆☆☆☆	**(good)**
	SP (2Hr)	120 min	☆☆☆☆☆	
	SPP (2.5Hr)	150 min	☆☆☆☆	
	LP (3Hr)	180 min	☆☆☆	
	EP (4Hr)	240 min	☆☆	
	SLP (6Hr)	360 min	☆	**(poor)**

• The recording time is only an estimate. The actual recording time may differ.
• The audio and video quality gets poorer as the recording time becomes longer.
• Each time **[REC MODE]** is pressed, recording mode and its allowed recording time will be displayed.

Note
• **This unit cannot record to CD-RW or CD-R.**
• All high definition pictures will be down converted to the standard definition pictures when they are recorded on this unit.
• DVD+RW/+R, DVD-RW/-R and CD-RW/-R recorded on a personal computer or a DVD or CD recorder may not be played back if the disc is damaged or dirty or if there is condensation on the player's lens.
• If you record a disc using a personal computer, even if it is recorded in a compatible format it may not be played back because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
• Since the recording is made by the VBR (variable bit rate) method, depending on the picture you are recording, the actual remaining time for recording may be a little shorter than the remaining time displayed on the TV screen.
• You cannot record copy-protected program using this unit. (Copy-protected signal is included in DVD-video or some satellite broadcasts.)
• You cannot record "copy-once only" program on DVD.

Make Recording Compatible

DVD +RW DVD +R DVD −RW DVD −R

Use this feature to make the unfinalized +VR mode discs recorded on other unit recordable on this unit. When you make an additional recording on this unit with "Make Recording Compatible" set to "ON", the title menu is automatically converted to our style.
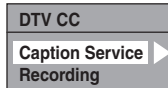
1) Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].
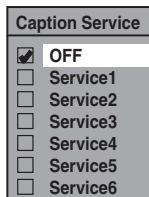"General Setting" menu will appear.

2) Use [▲ / ▼] to select "Recording", then press [OK].
"Recording" menu will appear.

3) Use [▲ / ▼] to select "Make Recording Compatible", then press [OK].

4) Use [▲ / ▼] to select "ON" or "OFF", then press [OK].

```
Make Recording Compatible
☐  ON
☑  OFF
```

ON: Title list will be replaced when you make additional recordings to the discs recorded by other units.
OFF: Prohibiting additional record to the disc that has a title list created by other units.

5) Press [SETUP] to exit.

Setting for Auto Chapter

You can set a specified time for chapter marks.

1) Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].
"General Setting" menu will appear.

2) Use [▲ / ▼] to select "Recording", then press [OK].
"Recording" menu will appear.

3) Use [▲ / ▼] to select "Auto Chapter", then press [OK].

4) Use [▲ / ▼] to select a desired time option, then press [OK].

```
Auto Chapter
☐  OFF
☐  5 minutes
☑  10 minutes
☐  15 minutes
☐  30 minutes
☐  60 minutes
```
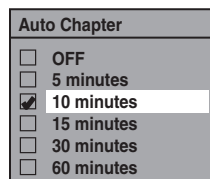
5) Press [SETUP] to exit.

Note
- The interval for auto chapter may be up to two minutes different from the time option you set.
- A blank chapter may be created depending on the remaining time of the disc.

Recording the DTV Closed Caption

You can record the DTV Closed Caption as the part of the image for the recording program and see the recorded closed caption even with the TV that is not closed caption compliant.

1) Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].

2) Use [▲ / ▼] to select "Display", then press [OK].

3) Use [▲ / ▼] to select "DTV CC", then press [OK].

4) Use [▲ / ▼] to select "Recording", then press [OK].
• If "Caption Service" is set to "OFF", you cannot select "Recording".

5) Use [▲ / ▼] to select "ON", then press [OK].

```
Recording
☐  ON
☑  OFF
```

6) Press [SETUP] to exit.

Note
• If "Caption Service" is set to "OFF", the caption will not be recorded.

Follow the steps to record TV programs.

Introduction

Connections

Basic Setup

Recording

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Others

Español

1 **Press [STANDBY-ON ⏻].**
Turn on the TV and be sure to select the input to which the unit is connected.

2 **Press [OPEN/CLOSE ▲] to open the disc tray and insert your disc with its label facing up.**
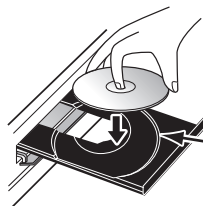
Align the disc to the disc tray guide.

* Make sure the disc is compatible with this unit. (Refer to page 37 for the list of compatible discs.)

3 **Press [OPEN/CLOSE ▲] to close the disc tray.**

It may take a while to load the disc completely.

• When inserting a brand-new DVD+RW/DVD-RW, the unit automatically starts to format.
• If titles have been recorded on the disc, the title list is displayed. Press **[STOP ■]** to exit the title list.

4 **Press [REC MODE] repeatedly to select a recording mode.**
Refer to "Recording Mode" on page 37.

SP(2Hr)   **0h58m**
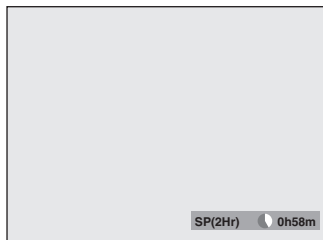
5 **Select the appropriate external input channel by pressing [SOURCE] or [CHANNEL + / −].**
Press [DTV/TV] to select analog TV or digital TV, then use [CHANNEL + / −] or [the Number buttons] and [•] (for digital TV channels) to select a desired channel to record.
Refer to "Switching Analog Mode/Digital Mode" and "Channel Selection" on page 31.
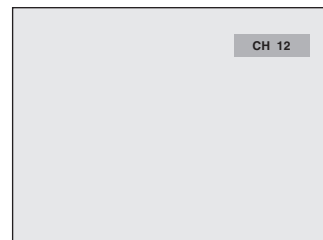
CH 12

MAGNAVOX

N8883

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6 **Press [REC] to start recording.**
"●" will be displayed for 4 seconds.

```
●                           SP(2Hr)      0h58m
```

Press **[PAUSE ❙❙]** to pause recording.
Press **[PAUSE ❙❙]** or **[REC]** again to restart recording.

To set one-touch timer recording (OTR)...

This is a simple way to set the recording time in blocks of 30 minutes.

Press **[REC]** repeatedly until the desired recording time (30 minutes to 6 hours) appears on the TV screen.

One-touch timer recording will start.

```
●   0h30m
```

```
                    0h30m
(normal recording)        1h00m

        6h00m       5h30m
```
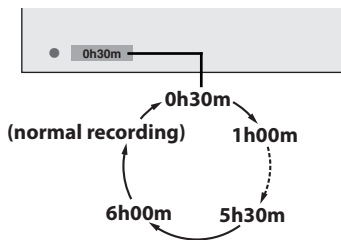
To change the recording length during the one-touch timer recording:
Press **[REC]** repeatedly until the desired length appear.

To cancel the one-touch timer recording within the specified time:
Press **[STOP ■]**.

7 **Press [STOP ■] to stop recording.**
The recorded title will appear in the title list.
(Refer to "Guide to a Title List" on page 67.)
e.g.) DVD+R

```
Please finalize the disc when the writing is
completed before playing back on other DVD
players.

Writing to Disc    ▮▮▮▮▮▮▮▮▮▮▮    90%
```

↓

```
▲
        1                        SP(2Hr)

        NOV/21/09  11:00AM CH12  SP
        NOV/21/09   0:20:44

        2

        EMPTY TITLE
        1:41:17   SP(2Hr)
```
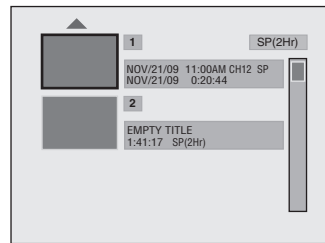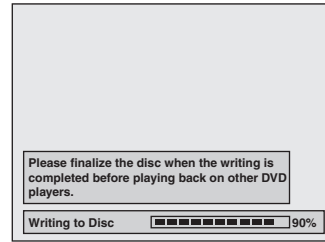
• Press **[STOP ■]** to exit the title list.

Note

- When you press **[REC]**, recording starts immediately and continues until the disc is full or you stop recording.
- This unit cannot record images as aspect ratio of 16:9. The 16:9 images will be recorded as 4:3.
- When the unit clock has not been set, the space for a date and time of title names will be blank.
- When you record a TV program, you have to select the TV channel audio beforehand. Only the selected channel audio will be recorded. Refer to "Selecting TV Audio" on pages 32-33 for more details.
- This unit cannot record in both stereo and SAP (secondary audio program) at the same time.
- You cannot change the recording mode during the recording pause mode.
- You can change a channel to be recorded during the recording pause mode.

Note for one-touch timer recording

- The remaining recording time will be displayed during one-touch timer recording. Press **[DISPLAY]** to see it on the TV screen.
- Unlike the timer recording, you can perform the following operations during one-touch timer recording.
  - Turning the power to standby to stop one-touch timer recording.
  - Using **[REC]** or **[STOP ■]** on the remote control.
- You cannot use the pause function during one-touch timer recording.
- When one-touch timer recording is finished and the power is turned to standby, the unit will switch to the timer-standby mode automatically if a timer recording has been programmed. Press **[STANDBY-ON ⏻]** to cancel the timer-standby mode to use the unit continuously.

TIMER RECORDING

You can program the unit to record up to 12 programs within a month in advance. Daily or weekly program recordings are also available.

Before recording, make sure
• Set the clock before setting a timer programming.
• Insert a recordable disc with enough recordable space.

Guide to Timer Programming Display

```
3          1        2

    Timer Programming
    JAN/ 2/09 12:00 AM 69.1 SP
    SP (1:00)          THU JAN/01 11:00AM

    Date     Start   End     CH
    JAN/02  12:00AM  1:00AM  DTV69. 1
            New Program



                              1/1

4                             5
```
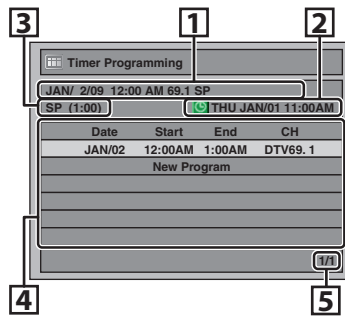
1 Title of a timer program (Contains date, time, channel, recording mode of the program)
2 Current date and time
3 Recording mode, and length of the recording
4 Timer program list
5 Total number of pages and current page (2 pages maximum)

1 Press [TIMER].

2 Use [▲ / ▼] to select "New Program", then press [OK].

```
    Timer Programming

                  THU JAN/01 11:00AM
    Date     Start   End     CH
            New Program

```
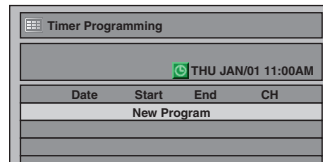
• If there are 6 or more programs, use [|◄◄ / ►►|] to change pages.

3 Use [▲ / ▼] to enter the date, then press [►].

```
    Date      Start      End
    JAN/02    - - : - -  - - : - -
    CH        Mode
    DTV69. 1  SP
                          SP    2h00m
```

```
    JAN/01
      ↓
    Daily
      ↓
    MON-SAT
      ↓
    MON-FRI
      ↓
    SAT
      ↓
    FRI
      ↓
    SUN
      ↓
    JAN/31
```
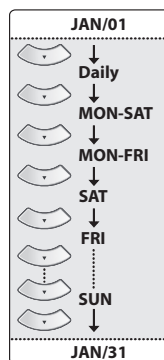
When pressing [▼] at the current date, the date will change as follows.
e.g.) January 1st

Note

• If you have not set the clock yet:
Entry screen for the clock setting will appear instead of the timer programming list at step 1. Continue with the step 5 in "Manual Clock Setting" on page 30 before setting a timer programming.
• Use [◄ / ►] to move the cursor to the left and the right in the entry screen for the timer programming.
• You cannot make a program whose recording time exceeds 12 hours.

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4 **Use [▲ / ▼ / ◄ / ►] or [the Number buttons] to enter the start and end time, then press [►].**

Date	Start	End
JAN/02	12 : 00AM	- - : - -
CH	Mode	
DTV69. 1	SP	
		SP ⬤ 2h00m
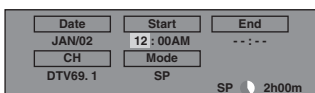
• You cannot make a program which recording time exceeds 12 hours.

5 **Use [▲ / ▼ / ◄ / ►] to select analog ("- - -") / digital ("DTV") mode or external input (L1 / L2), then press [►].**

e.g.) external input mode

Date	Start	End
JAN/02	12 : 00AM	1 : 00AM
CH	Mode	
L1	SP	
		SP ⬤ 1h00m
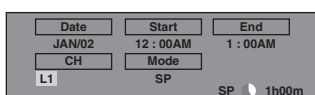
To record from external input (e.g., cable/ satellite box), select L1 or L2.

Use [▲ / ▼] or [the Number buttons] to select the channel number to record, then press [►]. For digital mode, select both major and minor channels. Refer to "How to select a channel number for the timer recording" on page 43 for more details.

e.g.) analog mode

Date	Start	End
JAN/02	12 : 00AM	1 : 00AM
CH	Mode	
10	SP	
		SP ⬤ 1h00m

e.g.) digital mode

Date	Start	End
JAN/02	12 : 00AM	1 : 00AM
CH	Mode	
DTV69. 1	SP	
		SP ⬤ 1h00m

6 **Use [▲ / ▼] to select a recording mode.**

Date	Start	End
JAN/02	12 : 00AM	1 : 00AM
CH	Mode	
DTV69. 1	SP	
		SP ⬤ 1h00m
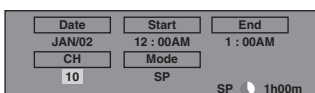
Refer to "Recording Mode" on page 37.

• You can check the remaining recordable space of the disc when you select the recording mode.

Date	Start	End
JAN/02	12 : 00AM	1 : 00AM
CH	Mode	
DTV69. 1	SP	
		SP ⬤ 1h00m
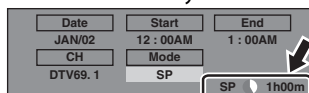
Auto recording mode select...

When "Auto" is selected as a recording mode, the unit calculates how much time is available on the disc and selects the best recording mode available automatically to complete recording the program.

Date	Start	End
JAN/02	12 : 00AM	1 : 00AM
CH	Mode	
DTV69. 1	Auto	
		Auto ⬤ 1h00m

• "Auto" is only available for one program in the timer program list.
• The recording may be cut short when the available recording space of the disc is too limited.

7 **Press [OK] when all items are entered.**
After displaying an instructive message for 10 seconds, timer program list will appear.

Press STANDBY-ON to Timer Standby mode.

↓

🗒 Timer Programming
JAN/ 2/09 12:00 AM 69.1 SP
SP (1:00)   🅖 THU JAN/01 11:00AM

Date	Start	End	CH
JAN/02	12:00AM	1:00AM	DTV69. 1
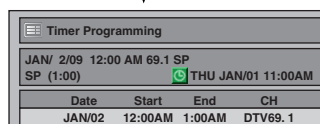
Your program setting is now stored.

• To set another program, repeat steps 2 to 7.
• To exit, press **[TIMER]** or **[SETUP]**.
• When 2 or more programs are overlapped, "Timer program overlapped" appears, and the overlapped program will be displayed in blue.
• To correct the timer program refer to "Checking, canceling, or correcting the timer programming information" on page 43.

8 **Press [STANDBY-ON ⏻] to set a timer programming.**
TIMER REC indicator will light up on the front panel.

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TIMER RECORDING

How to select a channel number for the timer recording	
Analog TV	For channel number 2-6 press, press **[▶]** or **[•]** to decide the channels. For other channels (7-69), the channel will be decided as soon as you enter the channel number.
Analog CATV	For channel number 1-12 press, press **[▶]** or **[•]** to decide the channels. For other channels (13-125), the channel will be decided as soon as you enter the channel number.
Digital TV	For channel number 1-9 press, press **[▶]** or **[•]** to decide the channels. For other channels (10-99), the channel will be decided as soon as you enter the channel number.
Digital CATV	For channel number 1-13 press, press **[▶]** or **[•]** to decide the channels. For other channels (14-135), the channel will be decided as soon as you enter the channel number.
minor channels	For channel number 1-9 press, press **[▶]** or **[•]** to decide the channels. For other channels (10-99), the channel will be decided as soon as you enter the channel number.

<Hint>

• You can decide the 1-digit channel number by pressing 0 first , then enter desired 1-digit channel number.
  e.g.) "5": **[0]**+**[5]**

• For selecting the channels with **[▲ / ▼]** you need to press **[▶]** or **[•]** to decide the channel number.

• For selecting the minor channels with **[▲ / ▼]**, please make sure the minor channel your are selecting is existed.
  [▲ / ▼] does not skip the non-existed minor channels.

To stop the timer recording in progress

1) **Press [STOP ■] on the remote control.**
2) **Confirmation message will appear. Select "Yes", then press [OK].**
 • **To stop the timer recording immediately, press [■STOP] on the unit.**

Checking, canceling, or correcting the timer programming information

1) **Press [STANDBAY-ON ⏻].**
2) **Press [TIMER].**
3) **Check the information.**

```
┌ Timer Programming ──────────────┐
│ JAN/ 2/09  12:00 AM 69.1 SP      │
│ SP (1:00)           🕐 THU JAN/01 11:00AM │
├─────────────────────────────────┤
│ Date     Start    End     CH     │
│ JAN/02   12:00AM  1:00AM  DTV69. 1 │
│        New Program               │
└─────────────────────────────────┘
```
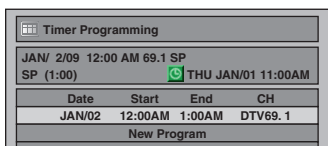
4-A) To delete the timer program:
   1 Use [▲ / ▼] to select the program you want to delete, then press [OK].
   2 Use [▲ / ▼] to select "Delete", then press [OK]. Confirmation window will appear.
   3 Use [▲ / ▼] to select "Yes", then press [OK].

4-B) To correct the timer program:
   1 Use [▲ / ▼] to select the program you want to correct, then press [OK].
   2 Use [▲ / ▼] to select "Program Change", then press [OK].
   3 Correct the timer program by using [▲ / ▼ / ◄ /▶], then press [OK].

5) **Press [TIMER] to exit.**
6) **Press [STANDBAY-ON ⏻] to return to the timer standby mode.**

Note

• Press **[TIMER]** to check the timer recording in progress. When the timer recording is proceeding, that program will be highlighted with red. In this case, you cannot select any other program.

If the timer program did not complete correctly, the error number appears in the timer programming list.

```
┌ Timer Programming ──────────────┐
│                                  │
│              🕐 FRI JAN/02 11:00AM │
├─────────────────────────────────┤
│ Date     Start    End     CH     │
│E41 JAN/02 12:00AM 1:00AM DTV69.1 │
│        New Program               │
│                                  │
│                                  │
│                                  │
│                                  │
│                            1/1   │
└─────────────────────────────────┘
```
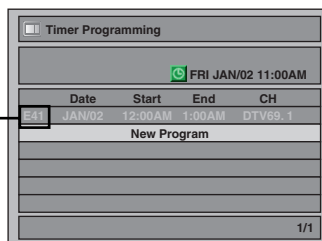
Each error number means:

E1-22 E37-39	Recording error other than below	E41	Power failed
E24	Unrecordable disc	E42	No disc when recording
E25-26	Copy prohibited program	E43	Already 49 titles recorded
E29	Disc protected	E44	Already 254 chapters recorded
E30	Disc full	E45	Copy prohibited program
E35	PCA full *1	E46	It is impossible to record additionally on a disc recorded by other units when setting " Make Recording Compatible" to "OFF".
E36	Already finalized video format disc		
E40	Some portion has not been recorded because of program overlapping. Recording did not start at the start time.		

• E23, E27, E28, E31, E32, E33 and E34 are not displayed.

• A program with the error number is grayed in the timer programming list.

• Timer program with an error number will be cleared once the entry screen for the program is displayed.

*1 PCA is a disc's space reserved for recording test.

TIMER RECORDING

Hints for Timer Recording

- If there is a power failure or this unit has been unplugged for more than 30 seconds, the clock setting and all timer programming will be lost.
- If a disc is not inserted, TIMER REC indicator flashes and timer recording cannot be performed. In some cases, TIMER REC indicator will light up momentarily around the start point as the unit attempts to record. Please insert a recordable disc.
- When all the timer recording is completed, TIMER REC indicator flashes. To play back or eject the recorded disc, press **[STANDBY-ON ⏻]** first, then select the recorded title and press **[PLAY ▶],** or **[OPEN/CLOSE ⏏]** to remove the disc.
- During timer recording or timer standby mode (TIMER REC indicator will light up), any operations on the unit will not be available. To make these operations available, press **[STOP ■]** to cancel the timer recording or **[STANDBY-ON ⏻]** to release timer standby mode (TIMER REC indicator will light off).

- When the starting and the ending time are the same, "Exceeds 12 hours" appears and the program setting will not be accepted.
- When the programmed starting and ending time are earlier than the current time, the setting will not be accepted.
- If the starting time is earlier and the ending time is later than the current time, the recording will start right after you press **[STANDBY-ON ⏻]** at step 8 on page 42.
- You cannot change the audio language for the timer recording of digital TV broadcasting.

The Priority of Overlapped Settings

- Timer program which has the earlier start time will be placed first in the timer program list, and be given priority over the programs with the later start time when timer programs overlap.
- When timer programs overlap, the first 2 minutes (at the longest) of the later recording will be cut off.
- When 2 or more timer programs have the same start time, the program set first will be given priority.
- A timer recording of lower priority will be canceled or start from the middle.
- Check the overlapped timer programmings and change the priority if necessary.

■ **When the starting time is the same:**
  A program set previously (PROG. A) has priority.

PROG. A	
PROG. B	
actual recording	PROG. A ▌ PROG. B

The first 2 minutes (at the longest) will be cut off.
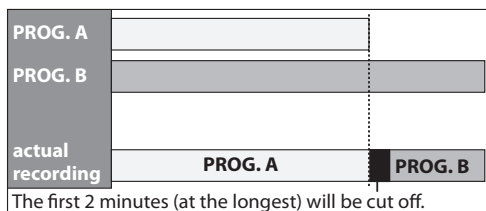
Note for DVD recording

- When the recording time of 2 programs are overlapped, or the end time of a program and the start time of another program is the same, the first 2 minutes (at the longest) of the subsequent program will be cut off.
- If the cut-off portion comes up to 3 minute or more, this program will be displayed with error number E40 in the timer programming list.

■ **When the end time of the programming currently being recorded and the start time of the subsequent program are same:**
  The beginning of the PROG. B may be cut off.

PROG. A	
PROG. B	
actual recording	PROG. A ▌ PROG. B

The first 2 minutes (at the longest) will be cut off.

44 EN
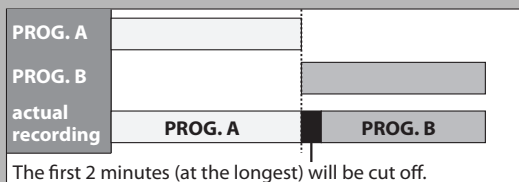
OVERWRITING UNNECESSARY TITLE

Overwriting from the Beginning of the Title

⊘DVD +RW ⊘DVD −RW

You can overwrite the existing title from the beginning.

1) Press [STANDBY-ON ⏻].
Make sure that the TV input is set on the unit.

2) Load the disc that includes a title to be overwritten.

> **It takes a while to display the title list.**

Title list will appear.
If the title list does not appear, press **[TITLE]**.

3) Press [REC MODE] repeatedly to select a recording mode.
Refer to "Recording Mode" on page 37.

4) Use [▲ / ▼] to select a title to be overwritten, then press [OK].

```
                    ▲
    ┌────┐   1                    SP (2Hr)
    │    │   NOV/21/09  11:00AM CH12 SP   ▓
    └────┘   NOV/21/09   0:20:44          ░
             2                            ░
    ┌────┐
    │    │   NOV/22/09  11:35AM CH13 EP
    └────┘   NOV/22/09   0:10:33
             3
    ┌────┐
    │    │   EMPTY TITLE
    └────┘   1:37:52  SP(2Hr)
```
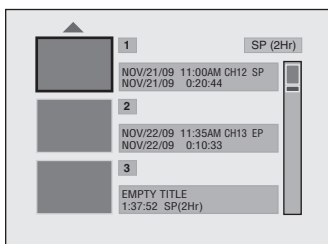
5) Use [▲ / ▼] to select "Overwrite", then press [OK].

```
             ▲
    ┌─────────┐  1                   SP (2Hr)
    │ Play    │  NOV/21/09 11:00AM CH12 SP  ▓
    │ Edit    │  NOV/21/09  0:20:44         ░
    │Overwrite│  2
    └─────────┘
```
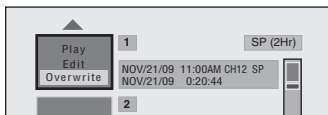
6) Select the channel you want to record.
(Refer to page 31 on how to select a channel.)

e.g.) DVD+RW

```
              selected title number
              to be overwritten
    ┌────────────────────────────────────┐
    │ T 1   C 1   🕐  0:00:00         ●   │
    │                          +RW        │
    │                          CH  12     │
    │                                     │
    │                                     │
    │                                     │
    │  ‖●              SP(2Hr)   ◔ 2h00m  │
    └────────────────────────────────────┘
```
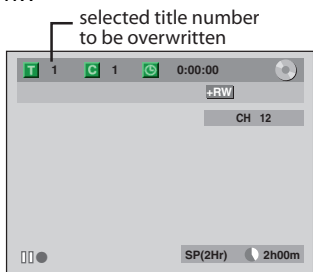
7) Press [REC].
Overwriting recording starts.
The elapsed-time counter starts running.

8) Press [STOP ■] to stop recording.
Title name is also overwritten.

> **This operation may take a while to be completed.**

Note
- The remaining recording time is displayed on the bottom right corner of the TV screen during overwriting.

Overwriting in the Middle of the Title

⊘DVD +RW ⊘DVD −RW

You can overwrite the existing title from the selected position.

1) Follow the steps 1, 2 and 4 on the left.

2) Use [▲ / ▼] to select "Play", then press [OK].
Playback will start.

3) Press [PAUSE ‖] at the point from which you want to start overwriting.

4) Press [REC].
"‖‖●", display menu, channel, and the time lapse will be displayed as illustrated on the left.

5) Select the channel you want to record.
(Refer to page 31 on how to select a channel.)

6) Press [REC] again.
Overwriting recording starts.

7) Press [STOP ■] to stop recording.

> **This operation may take a while to be completed.**

Note
- Recording mode of the overwriting title is the same as that of the original (overwritten) title when overwriting in the middle of the title.
- Title name will not be overwritten.

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OVERWRITING UNNECESSARY TITLE

Hints for Overwriting

When you overwrite on the unnecessary title, there were various circumstances such as follows. Please note that following cases only describe the overwriting without any recording mode discrepancy. To avoid accidental deletion please check if there is no important title after the overwriting point.

☐ **When overwriting title is shorter than the existing title:**
(overwriting from the beginning of the title)
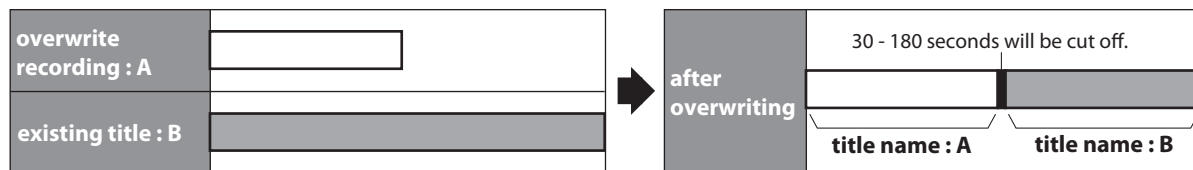
☐ **When overwriting title is longer than the existing title:**
(overwriting from the beginning of the title)
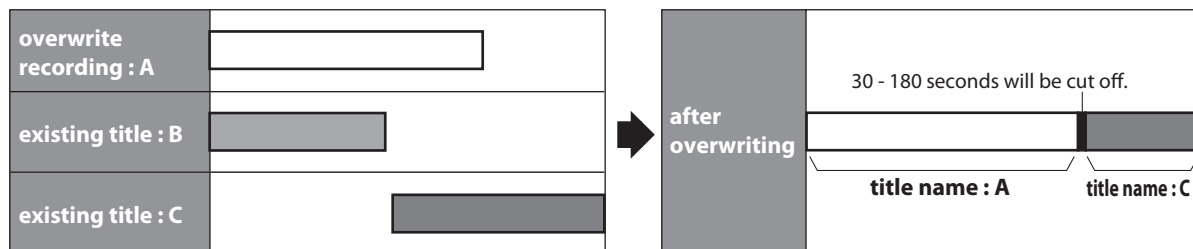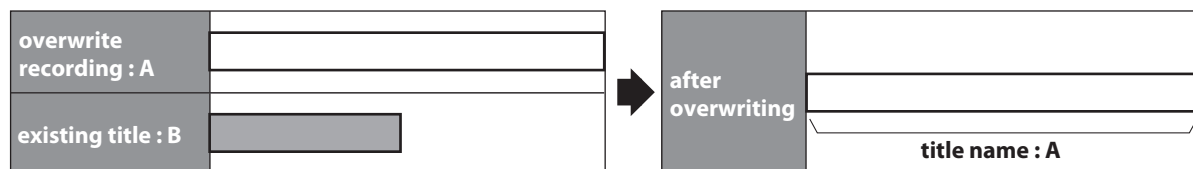
☐ **When overwriting in the middle of the title:**
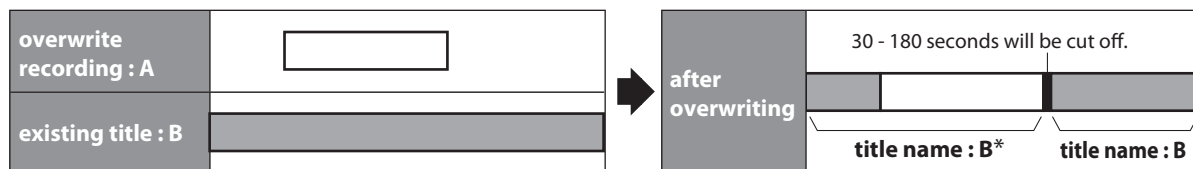
*Overwritten section and the rest of the sections will have the same title name as the original existing title (B).

Note
- When a title name is overwritten, its thumbnail is also overwritten.
- "Auto Chapter" interval time is reset at the overwriting start point.
- A chapter mark is put at the beginning of the overwrite title when overwriting in the middle of the title.

SETTINGS FOR AN EXTERNAL DEVICE

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Connection to an External Device

Connect the external device properly to the unit by using input jacks either L2 (Front) or L1 (Rear).
When connecting an external device of monaural output to this unit, use AUDIO L jack of L2 (Front) or L1 (Rear).
Use S-video or the RCA audio/video cables for this connection.
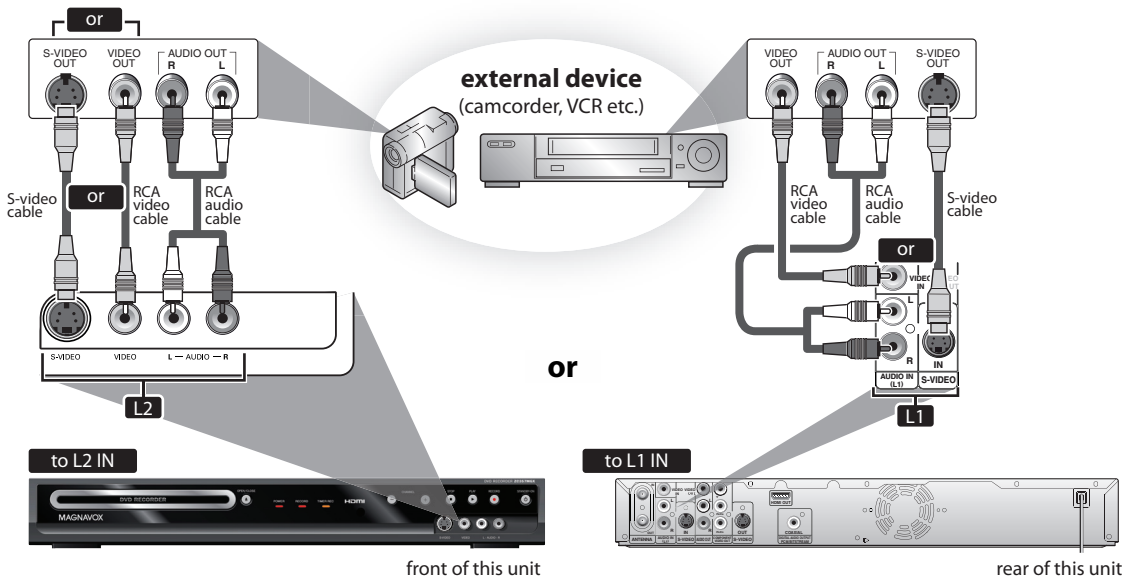
front of this unit

rear of this unit

Supplied cables used in this connection are as follows:

• RCA audio cable (L/R) x 1
• RCA video cable x 1
Please purchase the rest of the necessary cables at your local store.

---

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**

"General Setting" menu will appear.

2 **Use [▲ / ▼] to select "Video", then press [OK].**
Submenu will appear.

3 **Use [▲ / ▼] to select "Video Input", then press [OK].**

4 **Use [▲ / ▼] to select desired external input, then press [OK].**

Video Input
L1 (Rear)
L2 (Front)
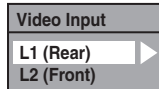
5 **Use [▲ / ▼] to select the input jack type to connect, then press [OK].**
If you want to use VIDEO IN jack, select "Video In".

If you want to use S-VIDEO IN jack, select "S-Video In".

L1 (Rear)
☑ Video In
☐ S-Video In
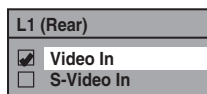
6 **Press [SETUP] to exit.**

SETTINGS FOR AN EXTERNAL DEVICE

Recording from an External Device

Before recording from an external device, refer to the instructions for the connection on page 47.
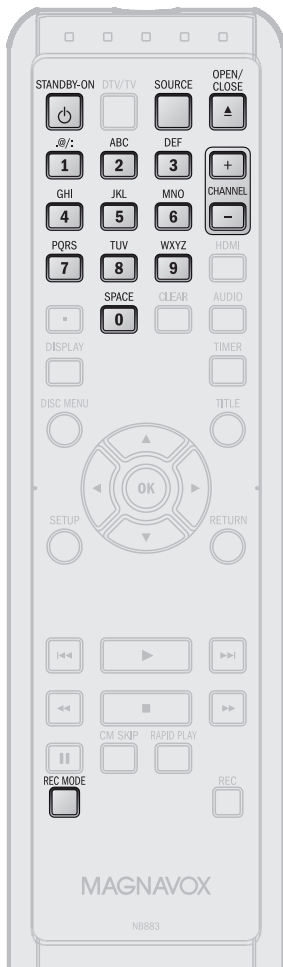
1 **Turn on the TV and press [STANDBY-ON ⏻], and be sure to select the input of the TV to which the unit is connected.**

2 **Press [OPEN/CLOSE ▲] to open the disc tray. Place the disc to record properly.**

3 **Press [OPEN/CLOSE ▲] to close the disc tray.**

> **It takes a while to load the disc.**

4 **Select the appropriate external input channel (L1 or L2) by pressing [SOURCE] or [CHANNEL ＋ / －].**
- If the external device is connected to the rear of this unit, select L1.
- If the external device is connected to the front of this unit, select L2.
- You can also select L1 or L2 channel by using **[the Number buttons]**.
  e.g.) For L1, press **[0]**, **[0]**, **[1]**.

5 **Press [REC MODE] repeatedly to select a recording mode.**
Refer to "Recording Mode" on page 31.

HQ (1Hr) → SP (2Hr) → SPP (2.5Hr) → LP (3Hr) → EP (4Hr) → SLP (6Hr)
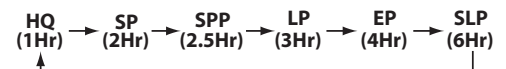
6 **Press [●RECORD] on the unit to start recording.**

7 **Start playback on the external device to record from.**

8 **Press [■STOP] on the unit to stop recording.**

> **This operation may take a while to be completed.**

2 3   4 8   6 1

SETTING A DISC TO PROTECT

To prevent accidental recording, editing or erasing the titles, you can protect them from "Disc Edit" menu.

1 Press [SETUP].

2 Use [▲ / ▼] to select "Disc Edit", then press [OK].

3 Use [▲ / ▼] to select "Disc Protect OFF ➡ ON", then press [OK].
e.g.) DVD+RW

> **Disc Edit**
>
> Edit Disc Name
> Erase Disc
> Make Edits Compatible
> Disc Protect OFF ➡ ON

4 Use [▲ / ▼] to select "Yes", then press [OK].

> **Protect this disc?**
>
> Yes
> No
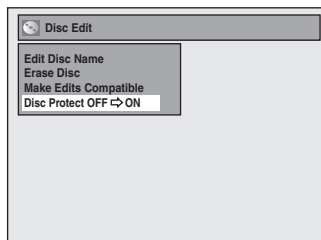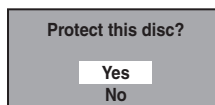
A disc will be protected.

> **This operation may take a while to be completed.**

Note

To cancel the disc protect:

• When you insert a disc protected with this unit, "Disc Protect ON ➡ OFF" will appear instead of "OFF ➡ ON" at step 3.

> **Disc Edit**
>
> Edit Disc Name
> Erase Disc
> Make Edits Compatible
> Disc Protect ON ➡ OFF
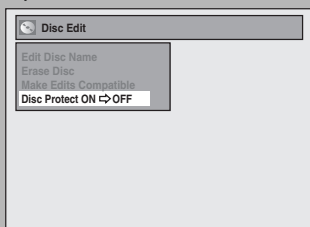
To release the protection for the disc, select "Disc Protect ON ➡ OFF" at step 3, then follow rest of the procedures.

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Finalizing a Disc

⊘DVD +R ⊘DVD -RW ⊘DVD -R

You will need to finalize DVD+R, DVD-RW or DVD-R to play them back on other DVD players.

Finalizing may take several minutes up to an hour.

A shorter recording period on the disc will require a longer time period for finalization. Do not unplug the power cord during finalization.

1 **Press [SETUP].**

2 **Use [▲ / ▼] to select "Disc Edit", then press [OK].**
"Disc Edit" menu will appear.

3 **Use [▲ / ▼] to select "Finalize", then press [OK].**

4 **Use [▲ / ▼] to select "Yes", then press [OK].**

> **Finalize disc?**
> **Yes**
> **No**
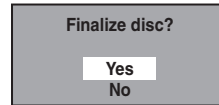
Finalizing will start.

> **Finalizing** ▉▉▉▉▉▉▉▉▉ **90%**

To cancel finalizing...
(DVD-RW only)

- To cancel finalizing at step 4, press **[STOP ■]**, select "Yes" with **[▲ / ▼]**, then press **[OK]**. Finalizing is canceled and the unit will be in stop mode.

> **Do you want to cancel ?**
> **Yes**
> **No**
>
> **Finalizing** ▉ **5%**
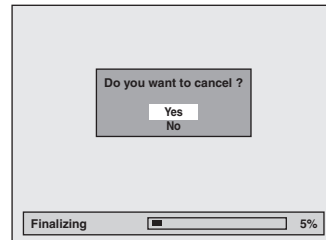
- If ⊘ appears when pressing **[STOP ■]**, you cannot cancel finalizing because the finalizing has been in certain progress.
- When selecting "No" and press **[OK]** or **[RETURN]** , finalizing will be continued.
- You cannot cancel finalizing the DVD+R/DVD-R once it has started.

> **This operation may take a while to be completed.**

5 **Finalizing is completed.**

Note
- Once you have finalized a DVD+R/ DVD-R, you cannot edit or record anything on that disc.
- There is no need to finalize DVD+RW.
- When you insert a DVD-RW finalized with this unit, "Undo Finalize" will appear instead of "Finalize".

> 🔵 **Disc Edit**
>
> Edit Disc Name
> **Erase Disc**
> **Undo Finalize**
> Disc Protect ON ➡ OFF
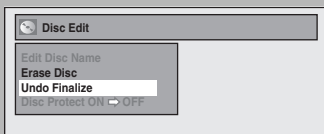
To release the finalizing for the disc, select "Undo Finalize" at step 3.

* DO NOT turn the power off or to the standby mode during finalization, this will result in malfunction.

PLAYING THE DISCS ON OTHER DVD PLAYERS

Auto Finalizing

⦿DVD +R ⦿DVD –RW ⦿DVD –R

You can finalize discs automatically using this function. You can use this function to finalize discs after finishing timer recordings and at the end of the disc space.

1 Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].
"General Setting" menu will appear.

**2** Use [▲ / ▼] to select "Recording", then press [OK].
"Recording" menu will appear.

3 Use [▲ / ▼] to select "Auto Finalize", then press [OK].

4 Use [▲ / ▼] to select "Disc Full" or "End of Timer Rec", then press [OK].

Auto Finalize
Disc Full ▶
End of Timer Rec
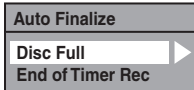
5 Use [▲ / ▼] to select "ON", then press [OK].
e.g.) "Disc Full"

Disc Full
☐ ON
☑ OFF
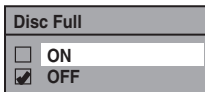
Your setting will be activated.

6 Press [SETUP] to exit.

MAGNAVOX

NB883

Note
• This function is not available after finishing daily or weekly program recording.

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INFORMATION ON PLAYBACK

Before you play back DVD, read the following information.

Playable Discs and Files

This unit is compatible to play back the following discs. To play back a DVD, make sure that it meets the requirements for region codes and color systems as described below. You can play back discs that have the following logos will play back on the unit. Other disc types are not guaranteed to play back.

Playable discs	Logos
DVD-video	**DVD** VIDEO
DVD+RW	**RW** DVD+ReWritable
DVD+R	**RW** DVD+R
DVD-RW (Finalized video mode discs only)	**DVD** RW
DVD-R (Finalized video mode discs only)	**DVD** R
CD-DA (audio CD)	COMPACT disc DIGITAL AUDIO
video CD	COMPACT disc DIGITAL VIDEO / VIDEO CD
CD-RW	COMPACT disc DIGITAL AUDIO ReWritable / COMPACT disc ReWritable
CD-R	COMPACT disc DIGITAL AUDIO Recordable / COMPACT disc Recordable
Kodak Picture CD	Kodak Picture CD COMPATIBLE

Playable files	Media
MP3	CD-RW/-R
JPEG	

DVD is a trademark of DVD Format/Logo Licensing Corporation.

Unplayable Discs

The following discs will not play back on this unit.
- CD-ROM
- DVD-RAM
- DVD-ROM
- Compact Disc-Interactive (CD-I)
- Video Single Disc (VSD)
- DVD-audio
- Unfinalized disc
- DVD or CD contains Windows Media™ Audio / DivX® files
- DVD-R or DVD-RW recorded in VR mode or non compatible recording format
- Blu-ray Disc
- HD DVD
- Super Video CD

On the following disc, the sound may not be heard.
- Super audio CD - Only the sound on the CD layer can be heard. The sound on the high-density super audio CD layer cannot be heard.

Color Systems

DVD is recorded in different color systems throughout the world. The most common color system is NTSC (which is used primarily in the United States and Canada). This unit uses NTSC, so DVD you play back must be recorded in the NTSC system. You cannot play back DVD recorded in other color systems.

Region Codes

This unit has been designed to play back DVD with region 1. DVD must be labeled for ALL regions or for region 1 in order to play back on the unit. You cannot play back DVD that are labeled for other regions. Look for the symbols on the right on your DVD. If these region symbols do not appear on your DVD, you cannot play back the DVD in this unit.

The number inside the globe refers to region of the world.

A DVD labeled for a specific region can only play back on the unit with the same region code.

INFORMATION ON PLAYBACK

PBC (playback control) for Video CD

You can select images or information on the menu screen by activating the PBC (playback control) function of the video CD.

This unit conforms to ver.1.1 and ver. 2.0 of video CD standard with PBC function.

Ver.1.1 (without PBC function): You can enjoy playback picture as well as music CD.

Ver.2.0 (with PBC function): While using a video CD with PBC function, "PBC" appears on the TV screen.

Note
- PBC setting turns to "ON" when loading video CD with PBC function, thus, even after setting PBC to "OFF" and ejecting the video CD then reloading the video CD, this setting turns to "ON" automatically.
- Some operations cannot be performed while PBC function is on. Cancel PBC function temporarily to perform those operations by following the instruction below.

1) Press [SETUP].

2) Use [▲ / ▼] to select "DISC Playback Mode", then press [OK].

"DISC Playback Mode" menu will appear.

3) Use [▲ / ▼] to select "PBC (Video CD only)", then press [OK].

4) Use [▲ / ▼] to select "ON" or "OFF", then press [OK].

Your setting will be activated.

You can play back interactive software using menu screens. Refer to instructions in the video CD.

Hint for DVD Playback

The contents of DVD are generally divided into titles. Titles may be further subdivided into chapters.
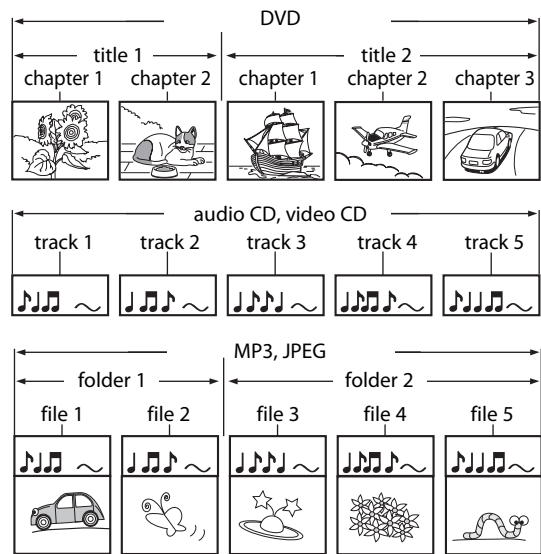
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Direct Playback

@DVD VIDEO @DVD +RW @DVD +R @DVD -RW @DVD -R @VCD WITHOUT PBC

1 **Press [STANDBY-ON ⏻].**
Turn on the TV and be sure to select the input to which the unit is connected.

2 **Press [OPEN/CLOSE ▲] to open the disc tray and insert your disc with its label facing up.**
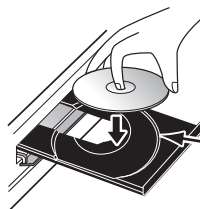
Align the disc to the disc tray guide.

* Make sure the disc is compatible with this unit. (Refer to page 52 for the list of compatible discs.)

3 **Press [OPEN/CLOSE ▲] to close the disc tray.**

It may take a while to load the disc completely.

4 **Press [PLAY ▶] to start playback.**
If you are playing back a DVD-video or video CD with PBC function, a menu may appear.
Refer to "Using the Title / Disc Menu" on page 58.

5 **Press [STOP ■] once to stop playback temporarily.**
• Refer to "Resume Playback" on page 59.

Note

• Some discs may start playback automatically.
• You can select images or information on the menu screen by activating PBC (playback control) function (page 53).

Playback from the Title List

⊘DVD+RW ⊘DVD+R ⊘DVD-RW ⊘DVD-R ⊘VCD

4 **Use [▲ / ▼] to select a desired title, then press [OK].**

```
                    1          SP (2Hr)
                    NOV/21/09  11:00AM CH12  SP
                    NOV/21/09   0:20:44
                    2
                    NOV/22/09  11:35AM CH13  EP
                    NOV/22/09   0:10:33
                    3
                    EMPTY TITLE
                    1:37:52  SP(2Hr)
```

• For video CD, when "PBC (Video CD only)" in "DISC playback Mode" menu is set to "ON", the video CD main menu will appear when inserting a disc. In such case, select a numbered menu with **[the Number buttons]**.

• Press **[▶]** to display the next page, and press **[◀]** to display the previous page.

If you want to see disc information, press **[◀]** when the first page of the title list is displayed or press **[▲]** when the first title is selected but not when "Play", "Edit" or "Overwrite" is highlighted.

e.g.) DVD+RW

```
            1  No Disc Name

         2  Disc                   DVD+RW
         3  Total Titles           3
         4  Disc Space Used        0:30:48
         5  Disc Protect           OFF
         6  Make Edits Compatible  Needed

                    ▼
```

e.g.) DVD+R

```
            1  No Disc Name

         2  Disc                   DVD+R
         3  Total Titles           5
         4  Disc Space Used        1:30:48
         5  Disc Protect           OFF
         6  Finalize               Finalized

                    ▼
```
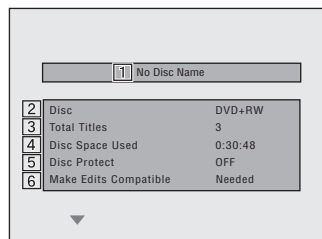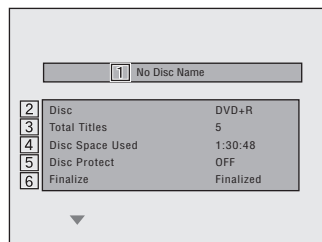
1. Disc name (Default "No Disc Name")
2. Disc type (DVD+RW/DVD+R/ DVD-RW/DVD-R)
3. Total number of title (include "EMPTY TITLE")
4. Total time of recorded disc space
5. Status of disc protection ("ON" is protected disc.)
6. Making edits compatible/finalize
   • When DVD+RW is inserted:
     If the disc needs to be set "Make Edits Compatible", "Needed" is displayed. Otherwise, "Not Needed" is displayed. (Refer to page 78.)
   • When DVD+R, DVD-RW or DVD-R is inserted:
     If "Finalize" is done, "Finalized" is displayed. Otherwise, "Unfinalized" is displayed.

1 **Press [STANDBY-ON ⏻].**
Turn on the TV and be sure to select the input to which the unit is connected.

2 **Press [OPEN/CLOSE ▲] to open the disc tray and insert your disc with its label facing up.**

Align the disc to the disc tray guide.

* Make sure the disc is compatible with this unit. (Refer to page 52 for the list of compatible discs.)

3 **Press [OPEN/CLOSE ▲] to close the disc tray.**

It may take a while to load the disc completely.

• Title list will appear automatically.
• To exit the title list, press **[STOP ■]**.
• To resume the title list, press **[TITLE]**.

Note
• Some discs may start playback automatically.
• You can also start playback by pressing **[PLAY ▶]** instead of **[OK]** at step 4.

5 Use [▲ / ▼] to select "Play", then press [OK].

Play	**1** SP (2Hr)
Edit	NOV/21/09 11:00AM CH12 SP
Overwrite	NOV/21/09 0:20:44
	2
	NOV/22/09 11:35AM CH13 EP
	NOV/22/09 0:10:33
	3
	EMPTY TITLE
	1:37:52 SP(2Hr)

Playback will start.

6 Press [STOP ■] once to stop playback temporarily.
• Refer to "Resume Playback" on page 59.

BASIC PLAYBACK

Playing Back an Audio CD and a CD-RW / -R with MP3 / JPEG Files

CD MP3 JPEG

1 **Follow steps 1 to 2 in "Direct Playback" on page 54.**

2 **Press [OPEN/CLOSE ▲] to close the disc tray.**

> **It may take a while to load the disc completely.**

When an audio CD is inserted, track list will appear.
When a CD-RW/-R with MP3/JPEG files is inserted, file list will appear.
When you insert a CD-RW/-R mixed with MP3/JPEG files, the playback media selection screen will be displayed.
For MP3, select "Music", for JPEG, select "Photo".
• To exit the track/file list, press **[STOP ■]**.
• To resume the track/file list, press **[TITLE]**.

3 **Use [▲ / ▼] to select a desired folder or track/file, then press [OK].**
e.g.) File list

🖿 File List
DISC NAME
🖿 **Folder 1** ⬆
🖿 **Folder 2**
♪ **MP3 file 1**
♪ **MP3 file 2**
♪ **MP3 file 3**
♪ **MP3 file 4**
♪ **MP3 file 5**
♪ **MP3 file 6** ⬇
1/ 2
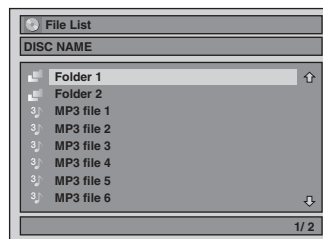
When selecting track/file:
Playback will start.

When selecting the folder (Not available for audio CD):
The files in the folder will appear.

Use **[▲ / ▼]** to select the file or folder you want to play back, then press **[OK]**.
• Press **[PLAY ▶]**, **[OK]** or **[▶]** to move to any lower hierarchies.
• Press **[◀]** or **[RETURN]** to move back to the previous hierarchy.

Hints for audio CD tracks and MP3 / JPEG files:
• Folders are shown by 🖿.
• Audio CD tracks are shown by 🎵.
• MP3 files are shown by ♪.
• JPEG files are shown by 🖼.
• The system can recognize up to 255 folders, up to 99 tracks/999 files.
• Letters of a file/folder name overflowing the given space will be displayed as "...". Unrecognizable characters will be replaced with asterisks.
• If there are no files in the folder, "No Files" will be displayed.

It is recommended that files to be played back in this unit are recorded under the following specifications:

<MP3>
• Sampling frequency : 44.1 kHz or 48 kHz.
• Constant bit rate : 112 kbps - 320 kbps

<JPEG>
• Upper limit : 6,300 x 5,100 dots.
• Lower limit : 32 x 32 dots.
• File size of image maximum : 12 MB.

Note
• The audio source of MP3 files cannot be recorded as digital sound by an MD or DAT deck.
• Files whose extension is other than ".mp3(MP3)" or ". jpg / . jpeg (JPEG)" will not be listed.
• Some unplayable folders or files may be listed due to the recording status.
• High-resolution JPEG files take longer to be displayed.
• Progressive JPEG files (JPEG files saved in progressive format) cannot be played back on this unit.

MAGNAVOX

N8883

BASIC PLAYBACK

Playing Back an Audio CD and a CD-RW / -R with MP3 / JPEG Files (cont'd)

Kodak Picture CD

The Picture CD is a service to convert photographs taken by a conventional film camera into digital data and write the data on a CD. You can enjoy picture images on the TV set by playing back the Picture CDs.

For details of Kodak Picture CD, contact a shop that provides developing service of Kodak Inc.

1) Press [TITLE].

```
Picture CD
Image 1

   1        2        3


   4        5        6

                            1 / 2
```
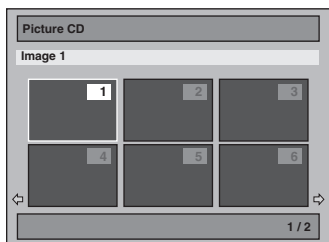
• To exit the Picture CD thumbnail List, press **[RETURN]** or **[STOP ■].**
  Arrow icons mean the title list includes a next or previous page. You can quick review the six thumbnails at once between the first and last pages by pressing **[|◄◄] / [►►|].**

2) Use [▲ / ▼ / ◄ / ►] to select a desired track to be played back, then press [PLAY ►] or [OK].
An image will be played back from the selected track and go to the next one in turn.

3) Press [STOP ■] to stop playback.
• Press **[TITLE]** to display the thumbnail again.

Notes on JPEG and Kodak Picture CD:
• After track is displayed for 5 seconds or 10 seconds (set in "Slide Show" on page 62) the display moves to the next track.
  During JPEG or Kodak Picture CD playback, press **[►]** or **[◄]** to rotate a picture 90 degrees clockwise or counterclockwise respectively.
  (Not available when the display menu appears.)

Using the Title / Disc Menu

⊘DVD Video ⊘DVD +RW ⊘DVD +R ⊘DVD -RW ⊘DVD -R ⊘VCD

DVD or video CD with PBC function may contain a title list, which describes the contents of the disc, or a disc menu, which guides you through the available functions in the disc.

1) Press [TITLE] or [DISC MENU] to call up the title list or disc menu.

2) Use [▲ / ▼ / ◄ / ►] to make a selection, and then press [OK] to enable your selection.

3) Press [STOP ■] to exit.

Note
• You can select a numbered menu with **[the Number buttons]** also.
• Menus vary among discs. Refer to the information accompanying the disc for details.
• **[TITLE]** or **[DISC MENU]** will not always be active with all DVD.
• For video CD, when "PBC (Video CD only)" in "DISC Playback Mode" menu is "ON", the video CD main menu will appear when inserting a disc.

Pause

1) During playback, press [PAUSE ❙❙].
Playback will be paused and sound will be muted.

```




        ❙❙
```
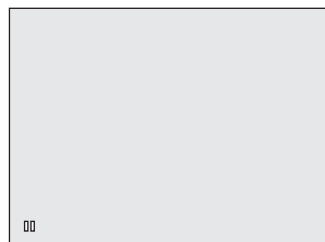
2) Press [PLAY ►] to return to the normal playback.

Note
• On DVD, set "Still Mode" to "Field" in "Playback" menu if pictures in the pause mode are blurred. (Refer to page 84.)

Introduction

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

Others

Español

SPECIAL PLAYBACK

Resume Playback

You can play back from where you stopped playing back the disc last.

1) During playback, press [STOP ■].

The resume message will appear.
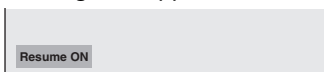
> **Resume ON**

2) Press [PLAY ▶].

In a few seconds, playback will resume from the point at which it stopped last. You can resume playback at the same point even if you turn the unit to the standby mode.

To cancel the resume playback and start playing back the disc from the beginning, press **[STOP ■]** again while the playback is stopped.

Note

- For MP3 / JPEG files, playback will resume from the beginning of the file at which playback was stopped.
- Resume Playback is available when you play back the video CD without PBC function.
- Some video CD with the PBC function resume playback from the beginning of the track.

Fast Forward / Fast Reverse Playback

DVD Video **DVD +RW** **DVD +R** **DVD –RW** **DVD –R** **VCD WITHOUT PBC**
CD **MP3**

1) During playback, press [▶▶] or [◀◀].

Every time you press **[▶▶]** or **[◀◀]**, approximate speed will be changed as follows.

Fast forward or fast reverse playback across titles (for DVD) or files (for MP3 files) is not possible.

40x 20x 5x normal speed playback 2x 20x 40x
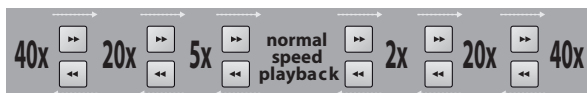
For video CD, approximate forward/reverse speeds are 2x, 8x, 16x.

For audio CD, MP3 files, approximate speed is fixed at 8x with sound (indicated with ▶▶▶▶ / ▶◀◀◀).

2) Press [PLAY ▶] to return to the normal playback.

Note

- Forward/reverse speed will be indicated with icons as follows.

  forward (approx. speed)
  2x: ▶▶
  20x: ▶▶▶
  40x: ▶▶▶▶
  reverse (approx. speed)
  5x: ▶◀
  20x: ▶◀◀
  40x: ▶◀◀◀

Skipping TV Commercials During Playback

DVD Video **DVD +RW** **DVD +R** **DVD –RW** **DVD –R**

You can skip TV commercials to enjoy the recorded programs without interrupting.

During playback, press [CM SKIP].

Normal playback will start at 30 seconds ahead from the point you press **[CM SKIP]**.

Every time you press **[CM SKIP]**, the searching point will be extended by 30 seconds ahead.

You can press **[CM SKIP]** up to 6 times (180 seconds).

e.g.) Press **[CM SKIP]** once.

> **CM Skip 30 sec.**
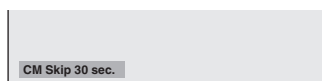
(forwarding 30 seconds)

↓

> ▷
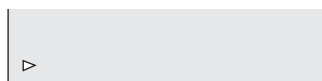
Playback will return to the normal playback.

Rapid Playback

DVD Video **DVD +RW** **DVD +R** **DVD –RW** **DVD –R**

Rapid playback function is available only during playback.

This function is available only on discs recorded in the Dolby Digital format, and plays back in a slightly faster/ slower speed while keeping the sound quality just as normal playback.

1) During playback, press [RAPID PLAY].

▶x0.8: Press **[RAPID PLAY]** once during playback. Plays back approximately at 0.8 times of normal playback.

▶x1.3: Press **[RAPID PLAY]** twice during playback. Plays back approximately at 1.3 times of normal playback.

▶: Press **[RAPID PLAY]** 3 times to play back in normal speed. No effects.

2) Press [PLAY ▶] to return to the normal playback.

Note

- Audio (language) setting cannot be changed while using this mode.
- This feature may not work at some point in a disc.
- Audio is PCM during rapid playback mode except when using digital audio connection.
- When using digital audio connection (COAXIAL), the LPCM sound (2 channel) will be output.

EN 59

SPECIAL PLAYBACK

Step by Step Playback

⊘DVD⊘DVD⊘DVD⊘DVD⊘DVD⊘VCD
VIDEO +RW   +R   -RW   -R   WITHOUT PBC

1)During playback, press [PAUSE❚❚].
  Playback will be paused and sound will be muted.

2)Press [▶▶❙] repeatedly.
  Playback will advance one frame (or step) at a time
  when you press **[▶▶❙]** with the sound muted.
  To play back step by step backward:
  Press **[❙◀◀]** repeatedly.
  Every time you press the button, the playback will go
  backward by one frame.
  • Press and hold **[❙◀◀] / [▶▶❙]** to reverse/ advance
    continuously.

3)Press [PLAY ▶] to return to the normal playback.

Note
• Only step by step forward playback is available for
  playing back video CD.

Slow Forward / Slow Reverse Playback

⊘DVD⊘DVD⊘DVD⊘DVD⊘DVD⊘VCD
VIDEO +RW   +R   -RW   -R   WITHOUT PBC

**1)During playback, press [PAUSE❚❚]. Then press
    [▶▶] or [◀◀].**
  Every time you press **[▶▶]** or **[◀◀]**, approximate speed
  will be changed as follows. (The sound will remain
  muted.)

1/4x 1/8x 1/16x pause 1/16x 1/8x 1/3x

2)Press [PLAY ▶] to return to the normal playback.

Note
• Forward/reverse speed will be indicated with icons
  as follows.
  forward (approx. speed)
  1/16x: ❙▶▶
  1/8x: ❙▶▶▶
  1/3x: ❙▶▶▶▶
  reverse (approx. speed)
  1/16x: ❙▶◀
  1/8x: ❙▶◀◀
  1/4x: ❙▶◀◀◀
• Only slow forward is available when playing back
  video CD.

Zoom

⊘DVD⊘DVD⊘DVD⊘DVD⊘DVD⊘VCD
VIDEO +RW   +R   -RW   -R
⊘JPEG

**1)During playback, press [DISPLAY] to bring up the
    display menu.**

**2)Use [◀ / ▶] to select 🔍 to display the selection
    menu.**
  e.g.) DVD-video

  | T | 1/ 5 | C | 1/ 5 | ⏱ | 0:01:00 / 1:23:45 | ● |
  | 🔍 ◀) ▢ 🔲 🔄 🔳 NR ⊕ 🔳 | | | DVD | Video |
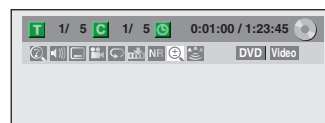
**3)Use [▲ / ▼] to select a desired zoom factor to zoom,
    then press [OK].**

  | T | 1/ 5 | C | 1/ 5 | ⏱ | 0:01:00 / 1:23:45 | ● |
  | 🔍 ◀) ▢ 🔲 🔄 🔳 NR ⊕ 🔳 | | | DVD | Video |

  🔍 x 1.2
  🔍 x 1.5
  🔍 x 2.0
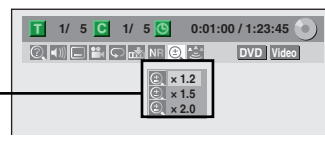
  Zoom menu will appear.
  There are four options
  (x1.0, x1.2, x1.5 and x2.0), these are displayed
  excluding the current zoom rate.

  Zoom area will be displayed.

**4)Use [▲ / ▼ / ◀ / ▶] to select a desired zoom
    position, then press [OK].**
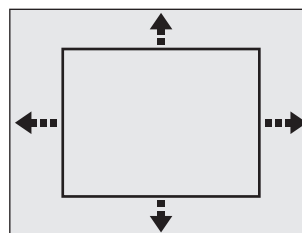
  Zoom playback will start.

Note
• When selecting a smaller factor than the current one,
  the zoom area will not be displayed.
• To exit the zoom menu, press **[RETURN]** repeatedly
  at step 3.
• To cancel the zoom function, select "x1.0" using
  [▲ / ▼], then press **[OK]**.
• You cannot slide the zoomed picture on some JPEG
  files.

SPECIAL PLAYBACK

Marker Setting

 DVD Video DVD +RW DVD +R DVD -RW DVD -R VCD WITHOUT PBC
CD

This feature allows you to assign a specific point on a disc to be called back later.

1) During playback, press [DISPLAY] to bring up the display menu.
If the display menu is already shown, skip to step 2.

2) Use [◀ / ▶] to select to display the marker list.

e.g.) DVD-video

T 1/ 5	C 1/ 5	0:01:00 / 1:23:45

DVD Video
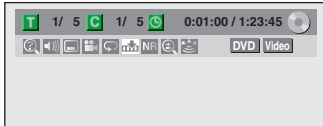
3) Use [▲ / ▼] to select a desired marker number. When it reaches the desired point, press [OK].

T 1/ 5	C 1/ 5	0:01:00 / 1:23:45

DVD Video

☆ ----
☆ ----
☆ ----
☆ ----
☆ ----
☆ ----

▷
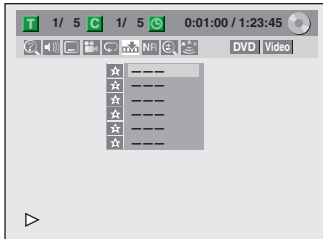
The title (track) number and the time will be displayed.

4) To return to the marker later:
Use [▲ / ▼] to select the desired marker number, then press [OK].

Note
- To clear a marker, select the marker number to be cleared, then press **[CLEAR]**.
- All markers will be erased when you operate these operations listed below.
- Opening the disc tray
- Turning the unit to standby / off
- Record on a recordable disc
- You can mark up to 6 points.
- Marker setting is not available when you play back the video CD with PBC function.

Repeat Playback

Available repeat function may vary depending the discs.

1) During playback press [DISPLAY] to bring up the display menu, then proceed to step 2), or press [REPEAT] then proceed to step 3).
If the display menu is already shown, skip to step 2.

2) Use [◀ / ▶] to select to display the selection menu.

T 1/ 5	C 1/ 5	0:01:00 / 1:23:45

DVD Video

3) Use [▲ / ▼] to select a desired repeat type, then press [OK].
The selected repeat playback will start.

e.g.) DVD-video

✔ OFF
Title
Chapter
A – B

e.g.) audio CD, video CD

✔ OFF
Track
All
A – B

e.g.) MP3 / JPEG files

✔ OFF
Track
All
Group
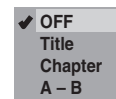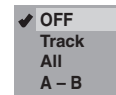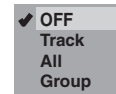
Title:
The current title will be played back repeatedly.

Chapter:
The current chapter will be played back repeatedly.

All:
The current disc will be played back repeatedly.

A-B:
Desired section can be played back repeatedly.
1) Use **[▲ / ▼]** to select "A-B", then press **[OK]**.
2) Press **[OK]** at the desired starting point A.
3) Press **[OK]** at the desired ending point B.

Track:
The current track or file will be played back repeatedly.
Group:
The current folder will be played back repeatedly.

Note
- Point B for the repeat A-B playback should be set within the same title or track as point A.
- To cancel the repeat playback, select "OFF" at step 3. The repeat setting will also be canceled when you stop playback.
- You cannot select "Group" during the random playback.
- Repeat playback is not available when you play back the video CD with PBC function.
- During the A-B repeat, if you reaches the point A with any reverse playback, the reverse playback will be canceled and the A-B repeat playback resumes from point A.

SPECIAL PLAYBACK

Random Playback

⊘VCD ⊘CD ⊘MP3 ⊘JPEG

You can play back a disc randomly instead of playing back in the original order.

1) Press [SETUP].

2) Use [▲ / ▼] to select "DISC Playback Mode", then press [OK].
"DISC Playback Mode" menu will appear.
For MP3, use **[▲ / ▼]** to select "Music", then press **[OK]**.
For JPEG, use **[▲ / ▼]** to select "Photo", then press **[OK]**.

3) Use [▲ / ▼] to select "Random Play", then press [OK].
Random playback will start.

Note
- To cancel random playback, press **[STOP ■]** twice during random playback. "OFF" appears on the TV screen.
- For video CD with PBC function, the PBC setting will be switched to off automatically when you start random playback.

Slide Show

⊘JPEG

You can select the display time between 5 seconds and 10 seconds.

1) Follow steps 1 and 2 in "Random Playback" on this page.

2) Use [▲ / ▼] to select "Slide Show", then press [OK].

3) Use [▲ / ▼] to select the display time, then press [OK].

4) Press [SETUP] to exit.

Note
- Large-size JPEG files take a few moments to be displayed.

Program Playback

⊘VCD ⊘CD

You can program the disc to play back in your desired order.

1) Press [SETUP].

2) Use [▲ / ▼] to select "DISC Playback Mode", then press [OK].
"DISC Playback Mode" menu will appear.

3) Use [▲ / ▼] to select "Program Play", then press [OK].

4) Use [▲ / ▼] to select a desired track, then press [OK] or [▶].

```
┌──────────────────────────────────┐
│ 📀 DISC Playback Mode             │
│ ┌──────────────────────────────┐ │
│ │ Program Play                 │ │
│ ├──────────────────────────────┤ │
│ │ -- ➡ -- ➡ -- ➡ -- ➡ -- ➡ -- │ │
│ │  ➡ -- ➡ -- ➡ -- ➡ -- ➡ -- ➡ │ │
│ │ -- ➡ -- ➡ -- ➡ -- ➡ -- ➡ -- │ │
│ │ -- ➡ -- ➡ -- ➡ -- ➡ -- ➡ -- │ │
│ │ -- ➡ -- ➡ -- ➡ -- ➡ -- ➡ -- │ │
│ │              Total   0:00:00 │ │
│ └──────────────────────────────┘ │
└──────────────────────────────────┘
```
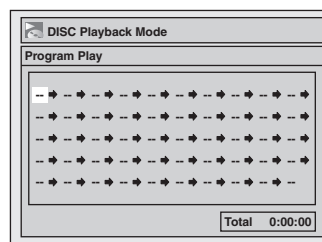
Repeat this step until you program all the desired tracks.

5) Press [PLAY ▶].

```
┌──────────────────────────────────┐
│ 📀 DISC Playback Mode             │
│ ┌──────────────────────────────┐ │
│ │ Program Play                 │ │
│ ├──────────────────────────────┤ │
│ │ 09➡ 04➡ 10➡ 06➡ -- ➡ -- ➡ -- │ │
│ │ -- ➡ -- ➡ -- ➡ -- ➡ -- ➡ -- │ │
│ │ -- ➡ -- ➡ -- ➡ -- ➡ -- ➡ -- │ │
│ │ -- ➡ -- ➡ -- ➡ -- ➡ -- ➡ -- │ │
│ │ -- ➡ -- ➡ -- ➡ -- ➡ -- ➡ -- │ │
│ │              Total   0:31:07 │ │
│ └──────────────────────────────┘ │
└──────────────────────────────────┘
```
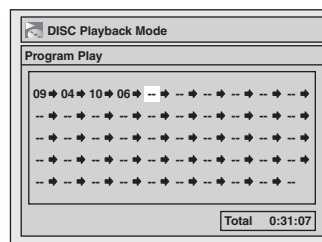
Program playback will start.

Note
- To erase tracks you selected, press **[CLEAR]** at step 4.
- You can make program settings up to 50 tracks.
- To cancel program playback, press **[STOP ■]** twice during program playback. "OFF" appears on the TV screen.
- You may also select a desired track using **[the Number buttons]** at step 4.
- For video CD with PBC function, the PBC setting will be switched to off automatically when you start program playback.

SEARCH

Title / Chapter Search

DVD VIDEO | DVD +RW | DVD +R | DVD -RW | DVD -R

Using [|◀◀] / [▶▶|]

1) During playback, press [▶▶|] to skip the current title or chapter and move to the next.

The title or chapter will move forward by one at a time.

• If there is no chapter in one title, the current title will be skipped.

To go back to the beginning of the current title or chapter, press **[|◀◀]**.

Press it repeatedly to go to the previous title or chapter. The title or chapter will move backward one at a time.

Using [DISPLAY]

1) During playback, press [DISPLAY] to bring up the display menu.

2) Use [◀ / ▶] to select 🔍 , then press [OK].

e.g.) DVD-video

> **T** 1/ 5 **C** 1/ 5 🕐 0:01:00 / 1:23:45
> 🔍 ◀)) 🔲 ⬛ ⊊ ⬛ NR 🔍 ⬛   DVD Video
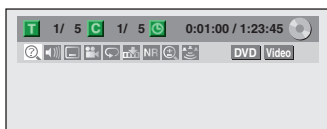
The number next to **T** will be highlighted.

3) Title:

Use [▲ / ▼] or [the Number buttons] to enter a desired title number to search, then press [OK].
Title search will start.

Chapter:

Press [▶] to move to the number next to C for chapter.

Use [▲ / ▼] or [the Number buttons] to enter a desired chapter number to search, then press [OK].
After the search, playback will start automatically.

Note

• In search mode display, total numbers of each search contents (title/chapter/time) are shown as a denominator.

> **T** 1/ 5 **C** 1/ 5 🕐 0:01:00 / 1:23:45
> 🔍 ◀)) 🔲 ⬛ ⊊ ⬛ NR 🔍 ⬛   DVD Video

total number of titles
total number of chapters
total time of the title

Track Search

VCD WITHOUT PBC | CD | MP3 | JPEG
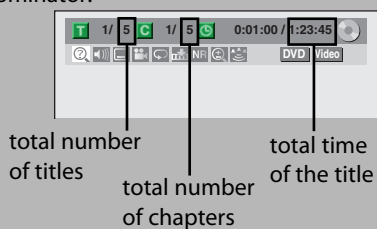
Using [|◀◀] / [▶▶|]

1) During playback, press [▶▶|] to skip the current track/file and move to the next.

The track/file will move forward one at a time.

To go back to the beginning of the current track/file, press **[|◀◀]**.

Press it repeatedly to go to the previous track/file. The track/file will move backward one at a time.

For JPEG files, press it once to go to the previous file.

Using [DISPLAY]

1) During playback, press [DISPLAY] to bring up the display menu.

If the display menu is already shown, skip to step 2.

2) Use [◀ / ▶] to select 🔍 , then press [OK].

e.g.) audio CD

> **T** 1/ 5 **C** 0:00:15 / 0:05:00
> 🔍 ◀)) ⊊ ⬛ ⬛   CD

e.g.) MP3 files

> **T** 1/ 5 **C** 0:00:15
> 🔍 ⊊ ⬛   MP3
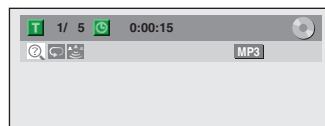
The number next to **T** will be highlighted.

3) Use [▲ / ▼] or [the Number buttons] to enter a desired track/file number to search, then press [OK].

After the search, playback will start automatically.

Note

• During CD playback you can enter a track number directly using **[the Number buttons]** for track search without displaying the menu.

• Track search using **[DISPLAY]** is not available when you play back the video CD with PBC function.

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SEARCH

Time Search

DVD VIDEO **DVD +RW** **DVD +R** **DVD -RW** **DVD -R** **VCD WITHOUT PBC**
CD

1) During playback, press [DISPLAY] to bring up the display menu.
If the display menu is already shown, skip to step 2.

2) Use [◄ / ►] to select ⦾ , then press [OK].
e.g.) DVD-video

T 1/ 5	C 1/ 5	0:01:00 / 1:23:45
		DVD Video
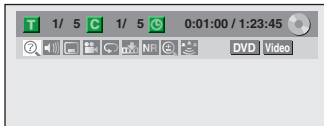
e.g.) audio CD

T 1/ 5	0:00:15 / 0:05:00
	CD
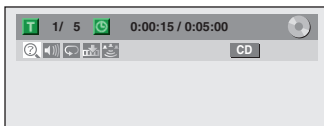
The number next to **T** will be highlighted.

To move to the number next to 🕐 , press [►].

When time search is not available, 🕐 and time counter are not displayed.

3) Use [▲ / ▼ / ◄ / ►] or [the Number buttons] to enter a desired time to search, then press [OK].
After the search, playback will start automatically.

Note
- Time search is available only in the same track, file or title.
- Time search is not available when you play back the video CD with PBC function.

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SELECTING THE FORMAT OF AUDIO AND VIDEO

You can select the format of audio and video as you prefer depending on the contents of the disc you are playing back.

Switching Subtitles

⊘ DVD ⊘ VCD

DVD-video may have subtitles in 1 or more languages. Available subtitle languages can be found on the disc case. You can switch subtitle languages anytime during playback.

1) During playback, press [DISPLAY] to bring up the display menu.

2) Use [◄ / ►] to select ⬚ to display the selection menu.

e.g.) DVD-video

```
T  1/ 5  C  1/ 5  🕐  0:01:00 / 1:23:45
🔍 ⓘ ▭ ⬚ ⟲ ⯐ NR 🔍 ⊚       DVD  Video
```
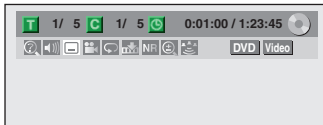
3) Use [▲ / ▼] to select a desired subtitle language, then press [OK].

```
T  1/ 5  C  1/ 5  🕐  0:01:00 / 1:23:45
🔍 ⓘ ▭ ⬚ ⟲ ⯐ NR 🔍 ⊚       DVD  Video
       ✔  OFF
          1.English
```
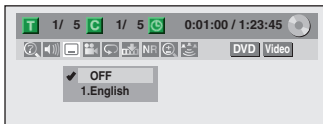
Subtitle will be displayed in the selected language. When selecting "OFF", subtitle will disappear.

Note
- Some discs will only allow you to change the subtitle from the disc menu. Press **[TITLE]** or **[DISC MENU]** to display the disc menu.
- If a 4-digit language code appears in the subtitle menu, refer to "LANGUAGE CODE" on page 95.

Switching Audio Soundtrack

⊘ DVD ⊘ VCD ⊘ CD

When playing back a DVD-video recorded with 2 or more soundtracks (these are often in different languages), you can switch them during playback.
When playing back video CD, audio CD you can switch "L/R"(stereo), "L"(left) or "R"(right).

1) During playback press [DISPLAY] to bring up the display menu, then proceed to step 2), or press [AUDIO] then proceed to step 3).
- If the display menu is already shown, skip to step 2.

2) Use [◄ / ►] to select 🔊 to display the selection menu.

3) Use [▲ / ▼] to select a desired audio soundtrack or audio channel, then press [OK].

For DVD-video
- Audio soundtrack will switch.

```
T  1/ 5  C  1/ 5  🕐  0:01:00 / 1:23:45
🔍 🔊 ▭ ⬚ ⟲ ⯐ NR 🔍 ⊚       DVD  Video
  ✔ 1.Dolby Digital  5.1ch English
    2.Dolby Digital  2ch English
```
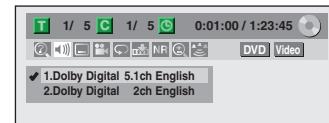
- If the title contains both main and sub audio, you can further select "L" (main), "R" (sub), or "L/R" (mixed of main and sub).

For audio CD, video CD
- Audio channel will switch.

e.g.) audio CD

```
T  1/ 5  🕐  0:00:15 / 0:05:00
🔍 🔊 ⟲ ⯐ ⊚                    CD
  ✔ 1. L/R
    2. L
    3. R
```
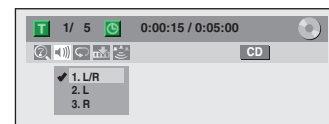
Note
- Some discs will only allow you to change the soundtrack from the disc menu. Press **[TITLE]** or **[DISC MENU]** to display the disc menu.

SELECTING THE FORMAT OF AUDIO AND VIDEO

Switching Virtual Surround System

DVD **DVD** **DVD** **DVD** **DVD** **VCD**
Video +RW +R -RW -R

CD **MP3**

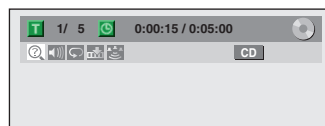You can enjoy stereophonic virtual space through your existing 2 channel stereo system.

1) During playback, press [DISPLAY] to bring up the display menu.

If the display menu is already shown, skip to step 2.

2) Use [◄ / ►] to select 😊 to display the selection menu.

e.g.) DVD-video

```
T  1/ 5  C  1/ 5  ⏱  0:01:00 / 1:23:45
                                      DVD  Video
```
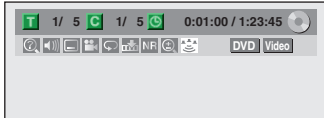
3) Use [▲ / ▼] to select "OFF", "Type 1" or "Type 2", then press [OK].

e.g.) DVD-video

```
T  1/ 5  C  1/ 5  ⏱  0:01:00 / 1:23:45
                                      DVD  Video
              ✔ OFF
                Type 1
                Type 2
```
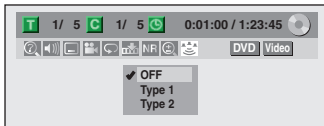
OFF : no effect
Type 1 : natural effect
Type 2 : emphasized effect

Note

- Select "OFF" in a case sound is distorted.
- The setting will be kept even when the unit is turned off.

Switching Camera Angles

DVD
Video

Some DVD-video have scenes shot from 2 or more angles. Angle information should be on the disc case if the disc contains multi-angle scenes.

1) During playback, press [DISPLAY] to bring up the display menu.

2) Use [◄ / ►] to select 🎦 , then press [OK].

e.g.) DVD-video

```
T  1/ 5  C  1/ 5  ⏱  0:01:00 / 1:23:45
                                      DVD  Video


  ▷                        ┌─🎦
```
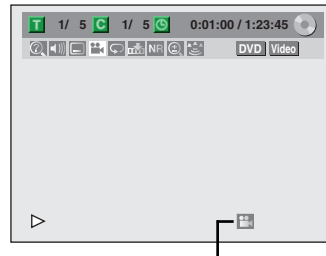
Angle icon appears when a switching camera angle is available.

Angle will switch each time you press **[OK].**

Note

- Angle icon does not appear on the TV screen in a case you set "Angle Icon" to "OFF" in "Playback" menu. Refer to page 84.

Reducing Block Noise

DVD **DVD** **DVD** **DVD** **DVD** **VCD**
Video +RW +R -RW -R

This function reduces noise in the playback picture.

1) During playback, press [DISPLAY] to bring up the display menu.

2) Use [◄ / ►] to select NR to display the selection menu.

e.g.) DVD-video

```
T  1/ 5  C  1/ 5  ⏱  0:01:00 / 1:23:45
                                      DVD  Video
```

3) Use [▲ / ▼] to select a desired option, then press [OK].

```
T  1/ 5  C  1/ 5  ⏱  0:01:00 / 1:23:45
                                      DVD  Video
              ✔ OFF
                Type 1
                Type 2
```

Your setting will be activated.

OFF : When playing back titles with a few noises such as DVD-video.
Type 1 : For the titles recorded in long time mode such as EP or SLP mode.
Type 2 : Same as type 1, only more effective.

INFORMATION ON DISC EDITING

Guide to a Title List

Title list allows you to check the titles recorded on the disc easily. You can choose a title to play back from this list and easily edit the titles as you prefer.

Press [TITLE].
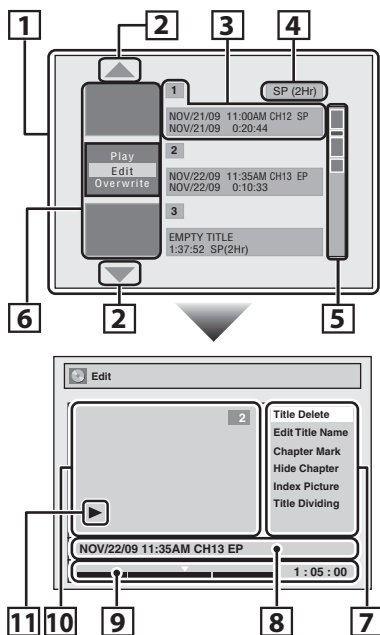
1. **Title list:** List of the titles recorded on the disc, and their information.
2. **Arrow:** Indicating there is a previous / next page.
3. **Title information:** On the first line, title name (editable) is displayed. On the second line, the date recorded and length of the title are displayed.
   Empty title: The portion of the disc where there is no recordings are made. As for the empty title, available recording time by the selected recording mode is displayed on the second line.
4. **Recording mode:** Currently selected recording mode is displayed here.
5. **Capacity indicator:** Indicating the position and the amount of each title in the disc. The portion for the selected title is highlighted.
6. **Thumbnails:** A cut from the recorded content is displayed here.
7. **Submenu:** Submenus for the selected menu are displayed here.
8. **Title name** (editable)**:** If you do not name the title, the recorded date, time, channel, and the recording mode are displayed here.
9. **Progress bar:** Indicating the progress of the playback.
10. **Preview window:** Preview of the selected title is displayed here.
11. **Playback status:** Indicating the current playback status of the selected title.

Press [STOP ■] to exit the title list.

Editing Discs

You can edit discs for the following items. Be sure that once you edit titles, they will not remain as original.
• Deleting a Title (Refer to page 68.)
• Putting Names on Titles (Refer to page 69.)
• Setting Chapter Marks (Refer to page 70.)
• Clearing Chapter Marks (Refer to pages 71-72.)
• Hiding Chapters (Refer to page 73.)
• Setting Pictures for Thumbnails (Refer to page 74.)
• Dividing a Title (DVD+RW/DVD-RW only) (Refer to page 75.)
• Putting Name on Disc (Refer to page 76.)
• Erasing Disc (Refer to page 77.)
• Making Edits Compatible (Refer to page 78.)

Note
- When selecting "Edit" on pop-up menu of the title list and edit the title, the title list is displayed after writing the edited contents onto the disc.
- The capacity indicator in the right side of the title list may not indicate the precise capacity in the disc.
- The capacity indicator may not indicate the capacity for the titles of which recording time is short.
- Once you have finalized a DVD+R/ DVD-R, you cannot edit or record anything on that disc.

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Deleting a Title

You can delete a title which you do not need anymore. Please be advised that the titles once deleted cannot be brought back to the disc.

For DVD+RW/DVD-RW, when the last recorded title in the title list is deleted, the available disc space to record on will be increased. For DVD+R/DVD-R, the disc space to record on will not be changed.

1 **Press [TITLE].**

2 **Use [▲ / ▼] to select a desired title, then press [OK].**

```
                    1              SP (2Hr)
                    NOV/21/09  11:00AM CH12  SP
                    NOV/21/09   0:20:44
                    2
                    NOV/22/09  11:35AM CH13  EP
                    NOV/22/09   0:10:33
                    3
                    EMPTY TITLE
                    1:37:52  SP(2Hr)
```
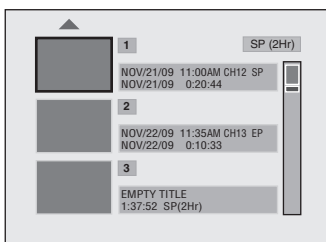
Note
• Deleted part of the titles in the capacity indicator changes in color.
• As for DVD+RW/DVD-RW if you delete the title, deleted title will be displayed as "EMPTY TITLE".

3 **Use [▲ / ▼] to select "Edit", then press [OK].**

```
          Play
          Edit         1              SP (2Hr)
          Overwrite    NOV/21/09  11:00AM CH12  SP
                       NOV/21/09   0:20:44
                       2
                       NOV/22/09  11:35AM CH13  EP
                       NOV/22/09   0:10:33
                       3
                       EMPTY TITLE
                       1:37:52  SP(2Hr)
```
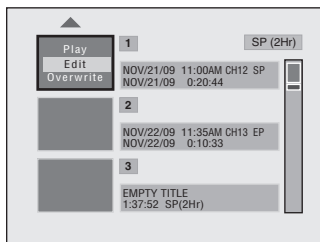
4 **Use [▲ / ▼] to select "Title Delete", then press [OK].**

```
  Edit

                          1    Title Delete
                               Edit Title Name
                               Chapter Mark
                               Hide Chapter
                               Index Picture
                               Title Dividing
   ►
  NOV/21/09 11:00AM CH12 SP
                                          1 : 05 : 00
```
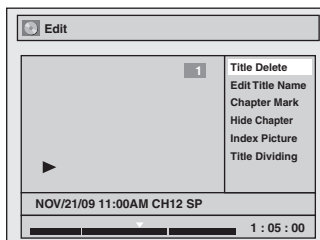
Confirmation message will appear.

5 **Use [▲ / ▼] to select "Yes", then press [OK].**

```
  Edit - Title Delete

                          1    Yes
                               No


   ►
  NOV/21/09 11:00AM CH12 SP
                                          1 : 05 : 00
```
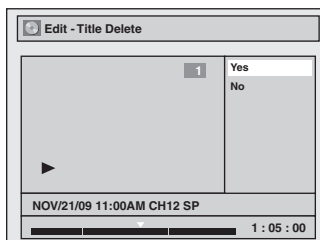
After that, "Are you sure?" will appear, select "Yes" and then press **[OK]**.
Title will be deleted.
Data will be written onto the disc momentarily.
e.g.) DVD+R/DVD-RW/-R

```
  Please finalize the disc when the writing is
  completed before playing back on other DVD
  players.
  Writing to Disc       ▪▪▪▪▪▪▪▪▪▪    90%
```

> **This operation may take a while to be completed.**

After editing is complete, the title list will appear.
e.g.) DVD+RW/DVD-RW

```
                    1              SP (2Hr)
                    EMPTY TITLE
                    0:21:14  SP(2Hr)
                    2
                    NOV/22/09  11:35AM CH13  EP
                    NOV/22/09   0:10:33
                    3
                    EMPTY TITLE
                    1:37:52  SP(2Hr)
```
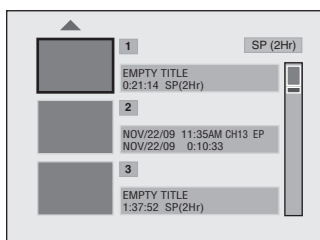
Putting Names on Titles

You can put title names on the titles and change the names from this menu.
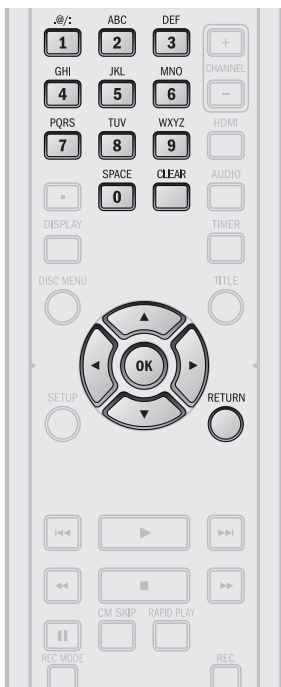
1 Follow steps 1 to 3 in "Deleting a Title" on page 68 to display "Edit" menu.

2 Use [▲ / ▼] to select "Edit Title Name", then press [OK].

Edit	
	Title Delete
1	**Edit Title Name**
	Chapter Mark
	Hide Chapter
	Index Picture
►	**Title Dividing**
NOV/21/09 11:00AM CH12 SP	
	1 : 05 : 00
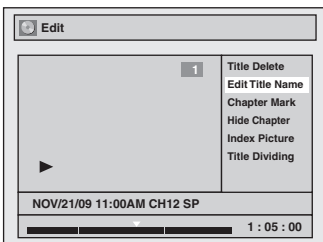
3 To enter a title name, follow the steps of "Guide to Edit Title Name" on this page.

Edit - Edit Title Name	
	✔ A B C
1	a b c
	1 2 3
	@ ! ?
►	
M	
	1 : 05 : 00

character set
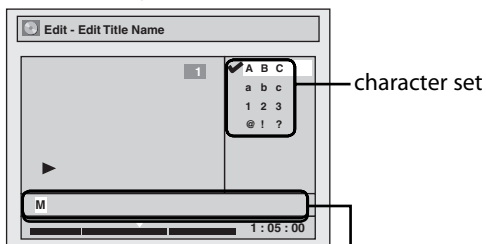
area for entering title names

4 Use [▲ / ▼] to select "Yes", then press [OK].

Edit - Edit Title Name	
	Yes
1	**No**
►	
MY FAVORITE	
	1 : 05 : 00
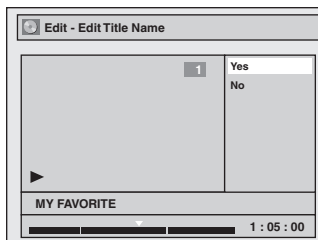
The name you entered will be activated for the title.

5 After this operation is completed, press [RETURN] to exit.
Data will be written onto the disc momentarily.

> **This operation may take a while to be completed.**

Guide to Edit Title Name

1) Use [▲ / ▼] to select a desired character set, then press [OK].

2) Follow the list below, use [the Number buttons] repeatedly until the desired letter appears.
When you finish entering a title name, press [OK].

Select ✔ / Press	ABC	abc	123	@ ! ?
0	\<space\>	\<space\>	0	\<space\>
1	(*1)	(*1)	1	! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [ ] ^ _ { | }
2	ABC	abc	2	(*2)
3	DEF	def	3	(*2)
4	GHI	ghi	4	(*2)
5	JKL	jkl	5	(*2)
6	MNO	mno	6	(*2)
7	PQRS	pqrs	7	(*2)
8	TUV	tuv	8	(*2)
9	WXYZ	wxyz	9	(*2)

*1 Press 1, character set will be changed to " @!? " mode automatically.

*2 Press 2 to 9, character set will be changed to the previous input mode automatically.

• To delete letters, press **[CLEAR]** repeatedly.
 Holding **[CLEAR]** to delete all letters.
• Use **[◄ / ►]** to move the cursor to the left and right.
• You can enter up to 30 letters.

Note
• Undefined letters in a title name are shown by "*". If you delete them, adjoining letters may change to "*" or other.

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Setting Chapter Marks

You can put chapter marks in each title. Once a chapter is marked, you can use it for the chapter search feature.

1 **Follow steps 1 to 3 in "Deleting a Title" on page 68 to display "Edit" menu.**

2 **Use [▲ / ▼] to select "Chapter Mark", then press [OK].**
Submenu will appear.

3 **Press [PLAY ▶] and then [PAUSE ▐▐] to decide the point at which you will create a new chapter mark.**
• It is convenient to use **[▐◀◀]**, **[▶▶▐]**, **[◀◀]** and **[▶▶]** for finding the point to add a new chapter mark.

4 **Use [▲ / ▼] to select "Add", then press [OK].**

Edit - Chapter Mark
1   Add
Delete
Delete All
Chapter   2/ 3
▶
NOV/21/09 11:00AM CH12 SP
1 : 05 : 00

5 **Use [▲ / ▼] to select "Yes", then press [OK].**

Edit - Chapter Mark - Add
1   Yes
No
Chapter   2/ 3
▐▐
NOV/21/09 11:00AM CH12 SP
1 : 05 : 00

A new chapter mark will be added.

6 **Press [RETURN] twice to exit.**
Data will be written onto the disc momentarily.

This operation may take a while to be completed.

Note
• When the number of chapter marks in a title is 99 and the number of chapter marks in a disc is 254, chapter marks cannot be added.
• Besides the above-mentioned, it is not likely to be able to add according to recorded time and number of chapters.
• Remaining time of the disc may decrease when adding chapter marks or increase when clearing chapter marks depending on the recording time or edited contents.

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EDITING DISCS
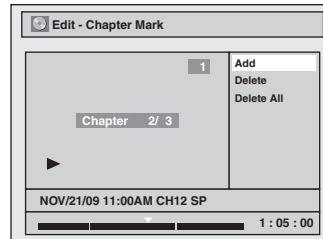
Clearing Chapter Marks

1 **Follow steps 1 to 3 in "Deleting a Title" on page 68 to display "Edit" menu.**

2 **Use [▲ / ▼] to select "Chapter Mark", then press [OK].**
Submenu will appear.

3 **Use [|◄◄] / [►►|] to select a chapter mark to be deleted, then press [PAUSE ❙❙].**
Chapter mark number is displayed on the preview screen.

```
┌─────────────────────────────────────┐
│ ◉ Edit - Chapter Mark                │
│ ┌─────────────────┬───────────────┐ │
│ │               1 │ Add           │ │
│ │                 │ Delete        │ │
│ │                 │ Delete All    │ │
│ │ Chapter    2/ 3 │               │ │
│ │                 │               │ │
│ │ ►               │               │ │
│ │                 │               │ │
│ │ NOV/21/09 11:00AM CH12 SP       │ │
│ │ ▬▬▬▬▬▬▼▬▬▬  1 : 05 : 00          │ │
│ └─────────────────┴───────────────┘ │
└─────────────────────────────────────┘
```

4 **Use [▲ / ▼] to select "Delete", then press [OK].**

5 **Use [▲ / ▼] to select "Yes", then press [OK].**

```
┌─────────────────────────────────────┐
│ ◉ Edit - Chapter Mark - Delete       │
│ ┌─────────────────┬───────────────┐ │
│ │               1 │ Yes           │ │
│ │                 │ No            │ │
│ │                 │               │ │
│ │ Chapter    2/ 3 │               │ │
│ │                 │               │ │
│ │ ❙❙              │               │ │
│ │                 │               │ │
│ │ NOV/21/09 11:00AM CH12 SP       │ │
│ │ ▬▬▬▬▬▬▼▬▬▬  1 : 05 : 00          │ │
│ └─────────────────┴───────────────┘ │
└─────────────────────────────────────┘
```
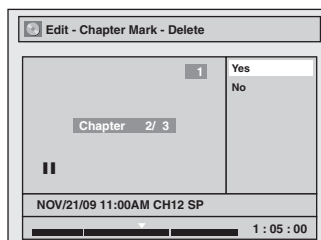
The selected chapter mark will be deleted.

6 **Press [RETURN] twice to exit.**
Data will be written onto the disc momentarily.

> **This operation may take a while to be completed.**

Note
• Remaining time of the disc may decrease when adding chapter marks or increase when clearing chapter marks depending on the recording time or edited contents.
• You cannot delete the chapter mark 1.

Clearing Chapter Marks (cont'd)

To delete all chapter marks:

1 **Follow steps 1 to 3 in "Deleting a Title" on page 68 to display "Edit" menu.**

2 **Use [▲ / ▼] to select "Chapter Mark", then press [OK].**
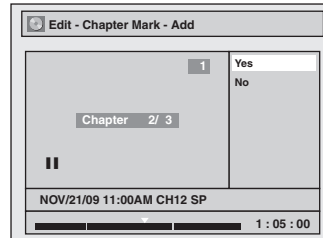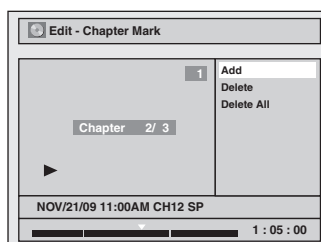Submenu will appear.

3 **Use [▲ / ▼] to select "Delete All", then press [OK].**

4 **Use [▲ / ▼] to select "Yes", then press [OK].**

Edit - Chapter Mark - Delete All
1   Yes
No
Chapter   2/ 3
❚❚
NOV/21/09 11:00AM CH12 SP
1 : 05 : 00

5 **Use [▲ / ▼] to select "Yes", then press [OK].**

Edit - Chapter Mark - Delete All
1   Are you sure?
Yes
No
Chapter   2/ 3
❚❚
NOV/21/09 11:00AM CH12 SP
1 : 05 : 00
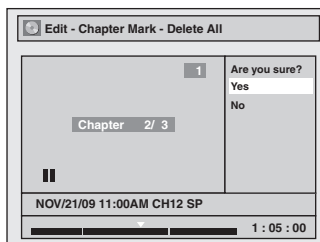
All chapter marks will be deleted.

6 **Press [RETURN] twice to exit.**
Data will be written onto the disc momentarily.

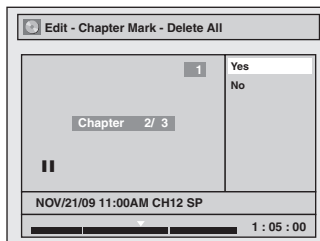**This operation may take a while to be completed.**

Note
• Remaining time of the disc may decrease when adding chapter marks or increase when clearing chapter marks depending on the recording time or edited contents.

Hiding Chapters

You can hide chapters from the title list.
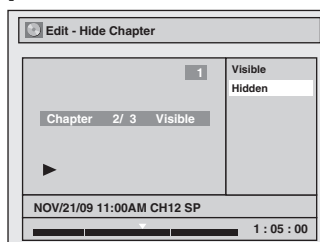Hidden chapters are skipped during playback.

1 Follow steps 1 to 3 in "Deleting a Title" on page 68 to display "Edit" menu.

2 Use [▲ / ▼] to select "Hide Chapter", then press [OK].
Submenu will appear.

3 Use [|◄◄] / [►►|] to decide the chapter to be hidden.

4 Use [▲ / ▼] to select "Hidden", then press [OK].

```
 Edit - Hide Chapter

                          1      Visible
                                 Hidden

   Chapter   2/ 3   Visible


   ►

   NOV/21/09 11:00AM CH12 SP
                                     1 : 05 : 00
```

The chapter is now hidden.

5 After this operation is completed, press [RETURN] twice to exit.
Data will be written onto the disc momentarily.

This operation may take a while to be completed.

If you want hidden chapters to be "Visible", select the chapter to be shown. Then use [▲ / ▼] to select "Visible" at the step 4 on this page.
Data will be written onto the disc momentarily.
After that, title list is displayed.

Note
- "Hidden" will be displayed in the preview window while previewing the hidden chapter.
- When you make all chapters in the title "Hidden", "Hidden" is displayed in a thumbnail of the title list.

```
          ▲
                1                        SP (2Hr)
   Hidden      NOV/21/09  11:00AM CH12  SP
               NOV/21/09   0:20:44

                2
               NOV/22/09  11:35AM CH13  EP
               NOV/22/09   0:10:33

                3
               EMPTY TITLE
               1:37:52  SP(2Hr)
```
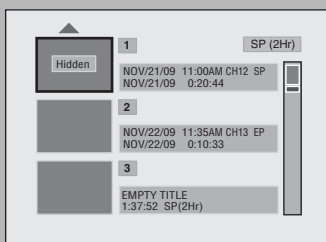
Setting Pictures for Thumbnails

You can set your desired scene as a thumbnail for each title.

1 **Follow steps 1 to 3 in "Deleting a Title" on page 68 to display "Edit" menu.**

2 **Use [|◄◄], [►►|], [◄◄], [►►], [PAUSE ❚❚] and [PLAY ►] to decide the picture you want to select as a thumbnail.**

3 **Use [▲ / ▼] to select "Index Picture", then press [OK].**

4 **Use [▲ / ▼] to select "Yes", then press [OK].**

> **Edit - Index Picture**
>
> | 1 | Yes |
> | | No |
>
> ❚❚
>
> **NOV/21/09 11:00AM CH12 SP**
>
> **1 : 05 : 00**

A picture for thumbnail will be set.

5 **Press [RETURN] to exit.**
Data will be written onto the disc momentarily.

> **This operation may take a while to be completed.**

Note
• If the selected picture for a thumbnail is overwritten, the thumbnail is reset to the first scene of the title.

EDITING DISCS

Dividing a Title

⊘DVD ⊘DVD
+RW   −RW

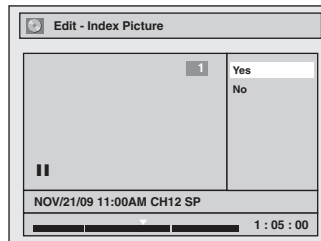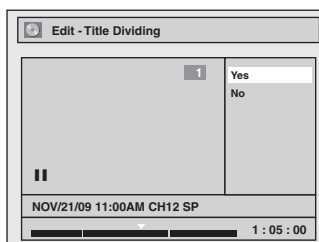You can divide one title into 2 new titles.

1 Follow steps 1 to 3 in "Deleting a Title" on page 68 to display "Edit" menu.

2 Use [|◄◄], [►►|], [◄◄], [►►], [PAUSE ❚❚] and [PLAY ►] to decide the point at which you will divide the title.

3 Use [▲ / ▼] to select "Title Dividing", then press [OK].

4 Use [▲ / ▼] to select "Yes", then press [OK].

Edit - Title Dividing	
1	**Yes**
	No
❚❚	
NOV/21/09 11:00AM CH12 SP	
	1 : 05 : 00

The title will be divided into 2 new titles.
Both title names are identical, and thumbnails are reset to the first scene at this point.

Data will be written onto the disc momentarily.

This operation may take a while to be completed.

Note
• You cannot divide a title of the disc when the number of recording titles reaches the maximum of 49, and the number of recording chapters reaches the maximum of 254.

EDITING DISCS

Putting Name on Disc

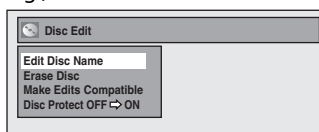You can put a name on the disc and change it from this menu.

Press **[STOP ■]** if you are playing back a disc.

1 **Press [SETUP].**
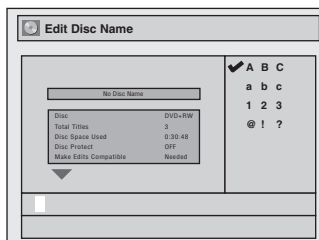
2 **Use [▲ / ▼] to select "Disc Edit", then press [OK].**

3 **Use [▲ / ▼] to select "Edit Disc Name", then press [OK].**
e.g.) DVD+RW

Disc Edit

Edit Disc Name
Erase Disc
Make Edits Compatible
Disc Protect OFF ⇨ ON

A window for entering a title name will appear.

Edit Disc Name

No Disc Name

Disc	DVD+RW
Total Titles	3
Disc Space Used	0:30:48
Disc Protect	OFF
Make Edits Compatible	Needed

✔ A B C
a b c
1 2 3
@ ! ?

4 **To enter a disc name, follow the steps of "Guide to Edit Title Name" on page 69.**
When you finish entering a title name, press **[OK]**.

5 **Use [▲ / ▼] to select "Yes", then press [OK].**

Edit Disc Name

No Disc Name

Disc	DVD+RW
Total Titles	3
Disc Space Used	0:30:48
Disc Protect	OFF
Make Edits Compatible	Needed

Yes
No

MY FAVORITE DISC
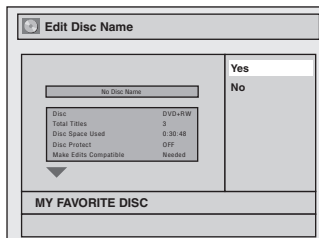
The name you entered will be activated for the title.
Data will be written onto the disc momentarily.

This operation may take a while to be completed.

Note
• You cannot select "Disc Edit" when finalized DVD+R or DVD-R is inserted.

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EDITING DISCS

Erasing Disc

⊘DVD +RW ⊘DVD –RW

You can erase all titles on a disc.

Press **[STOP ■]** if you are playing back a disc.

1 **Follow steps 1 to 2 in "Putting Name on Disc" on page 76 to display "Disc Edit" menu.**

2 **Use [▲ / ▼] to select "Erase Disc", then press [OK].**
e.g.) DVD+RW
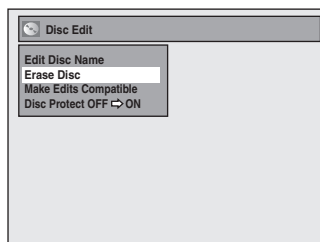
```
🔘 Disc Edit

Edit Disc Name
Erase Disc
Make Edits Compatible
Disc Protect OFF ⇨ ON
```

3 **Use [▲ / ▼] to select "Yes", then press [OK].**

> **When you press "Yes", all the contents in the disc will be erased. Are you sure to erase the disc?**
>
> Yes
> No

Data will be written onto the disc momentarily.

This operation may take a while to be completed.

The contents of the disc is now deleted.

MAGNAVOX

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Note
• When you select "Yes" at step 3, all contents of the disc will be erased.

EDITING DISCS

Making Edits Compatible

If you have added or deleted chapters, or made chapters hidden, you must perform "Make Edits Compatible" to see those effects on other unit.
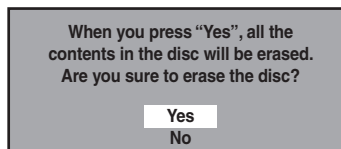
Press **[STOP ■]** if you are playing back a disc.

1 **Follow steps 1 to 2 in "Putting Name on Disc" on page 76 to display "Disc Edit" menu.**

2 **Use [▲ / ▼] to select "Make Edits Compatible", then press [OK].**
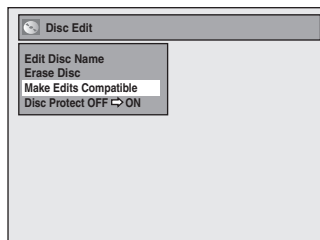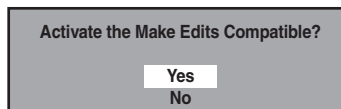
> **Disc Edit**
>
> Edit Disc Name
> Erase Disc
> **Make Edits Compatible**
> Disc Protect OFF ⇨ ON

3 **Use [▲ / ▼] to select "Yes", then press [OK].**

> **Activate the Make Edits Compatible?**
>
> **Yes**
> **No**

Data will be written onto the disc momentarily.

> **This operation may take a while to be completed.**

The following table is the contents which you can set and the default setting.
Refer to the following table for useful operation.

Setup		Items (highlight is the default)			Contents
General Setting	Playback → Pages 82-84	Parental Lock		OFF level 8 [Adult] to 1 [Kid Safe]	Set the parental level for DVD playback.
		Disc Audio	Dynamic Range Control	ON OFF	Compressing the range of sound volume.
			PCM	48kHz 96kHz	Set whether the sound recorded in 96kHz will be down sampled in 48kHz.
			Dolby Digital	PCM Stream	Set the type of sound signal which outputs from the digital audio output jack.
		Disc Menu Language		English French Spanish Other	Set the language for disc menu language.
		Audio Language		Original English French Spanish Other	Set the language for audio.
		Subtitle Language		OFF English French Spanish Other	Set the language for subtitles.
		Angle Icon		ON OFF	Set whether or not to display the angle icon.
		Still Mode		Auto Field Frame	Set the type of still image in pausing playback.
	Display → Pages 85-87	OSD Language		English Français Español	Set the language for OSD (on-screen display).
		Screen Saver		OFF 1 minute 5 minutes 10 minutes 15 minutes	Set the idling time before the screen saver starts.
		DTV CC	Caption Service → page 34	OFF Service1 Service2 Service3 Service4 Service5 Service6	Set the type of the DTV closed caption.
			Recording → page 38	ON OFF	Set whether to record the DTV closed caption or not.
		CC Style → pages 35-36	User Setting	ON OFF	Set the CC style setting whether or not is effective.
			Font Size	Large Middle Small	Set font size of the displayed caption.
			Font Style	Style1 Style2 Style3 Style4 Style5 Style6 Style7 Style8	Set font style of the displayed caption.
			Font Opacity	Solid Transparent Translucent Flash	Set the font opacity of the displayed caption.

Setup		Items (highlight is the default)			Contents
General Setting	Display → Pages 85-87	CC Style → pages 35-36	Font Color	White / Black / Red / Green / Blue / Yellow / Magenta / Cyan	Set the font color of the displayed caption.
			Edge Type	None / Raised / Depressed / Uniform / L.Shadow / R.Shadow	Set edge type of the displayed caption.
			Edge Color	White / Black / Red / Green / Blue / Yellow / Magenta / Cyan	Set edge color of the displayed caption.
			Back Opacity	Solid / Transparent / Translucent / Flash	Set back opacity of the displayed caption.
			Back Color	White / Black / Red / Green / Blue / Yellow / Magenta / Cyan	Set back color of the displayed caption.
		V-Chip	MPAA Rating	X / NC-17 / R / PG-13 / PG / G / NR	Set the viewing limitation according to US movie ratings.
			TV Rating	TV-MA / TV-14 / TV-PG / TV-G / TV-Y7 / TV-Y / None	Set the viewing limitation according to US TV program ratings.
			Canadian English Rating	18+ / 14+ / PG / G / C8+ / C / E	Set the viewing limitation according to Canadian English language ratings.
			Canadian French Rating	18ans+ / 16ans+ / 13ans+ / 8ans+ / G / E	Set the viewing limitation according to Canadian French language ratings.
			Downloadable Rating	Block Setting	To set the rating.
				Clear Downloadable Rating	Clear the downloadable rating information and its setting.
			Change Password		Change the password.
	Video → Page 88	Progressive Scan		ON / OFF	Set to the progressive scan mode (set to "ON") or to the interlace scan mode (set to "OFF").
		TV Aspect		4:3 Letter Box / 4:3 Pan & Scan / 16:9 Wide	Set a picture size according to aspect ratio of your TV.

LIST OF SETTINGS

Setup	Items (highlight is the default)				Contents
General Setting	Video → Page 88	Video Input → Page 47	L1(Rear)	Video In	Set the video input type for the external input.
				S-Video In	
			L2(Front)	Video In	
				S-Video In	
	Recording	Auto Chapter → Page 38		OFF / 5 minutes / 10 minutes / 15 minutes / 30 minutes / 60 minutes	Insert chapter marks at even time interval.
		Auto Finalize → Page 51	Disc Full	ON / OFF	Set the unit to finalize the disc automatically.
			End of Timer Rec	ON / OFF	
		Make Recording Compatible → Page 38		ON / OFF	Set to prohibiting additional recording (OFF) or to replace the title list after recording (ON).
	Clock → Pages 29-30	Clock Setting			Set the clock.
		Auto Clock Setting		OFF / Auto / Manual	Set the clock automatically.
		Daylight Saving Time		ON(MAR-NOV) / ON(APR-OCT) / OFF	Set the clock for the daylight saving time.
	Channel → Pages 26-28	Auto Channel Preset		Antenna / Cable (Analog) / Cable (Analog / Digital)	Tune the channels automatically.
		Manual Channel Preset			Tune the channels manually.
		TV Audio Select → Page 33		Stereo / SAP	Set the analog TV audio type for output and recording.
	HDMI → Page 89	Format		RGB / YCbCr	Set the color space for the HDMI output.
		HDMI Audio		ON / OFF	Set whether to output the HDMI audio signal or not.
		RGB Range		Normal / Enhanced	Set the black-white contrast level for HDMI RGB output.
		HDMI Control		ON / OFF	Sets whether to utilize the HDMI CEC function. HDMI CEC function allows your brand TV to act in conjunction with this unit.
	Reset All → Page 90			Yes / No	Set to the default setting.

Note
• Your change to each setting stays on even when the power is off.
• An item which is not currently available is grayed in the settings.

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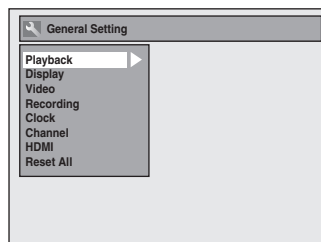## Playback

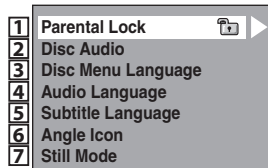Press **[STOP ■]** if you are playing back a disc.

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**

"General Setting" menu will appear.

2 **Use [▲ / ▼] to select "Playback", then press [OK].**

```
General Setting

Playback        ▶
Display
Video
Recording
Clock
Channel
HDMI
Reset All
```

3 **Use [▲ / ▼] to select a desired item, then press [OK].**

```
1  Parental Lock        ▶
2  Disc Audio
3  Disc Menu Language
4  Audio Language
5  Subtitle Language
6  Angle Icon
7  Still Mode
```

Submenu will appear.

4 **Refer to ⏐1⏐ to ⏐7⏐ on pages 83-84 and set the selected item.**

5 **When you finish with setting, press [SETUP] to exit.**

Playback (cont'd)

1 Parental Lock (Default: OFF)

Some DVD-video feature a parental lock level. Playback will stop if the ratings exceed the levels you set, it will require you to enter a password before the disc will playback. This feature prevents your children from viewing inappropriate material.

Use [▲ / ▼] to select the desired level, then press [OK].

```
Parental Lock
☑ OFF
☐ 8 [Adult]
☐ 7 [NC 17]
☐ 6 [R]
☐ 5 [PG R]
☐ 4 [PG 13]
☐ 3 [PG]
☐ 2 [G]
☐ 1 [Kid Safe]
```
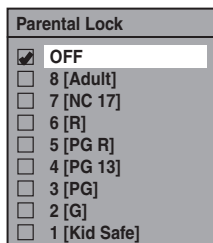
If a password has not been set yet, proceed to **A**.

If a password has been set already, proceed to **B**.

Note
- Parental lock function may not be available to some discs.
- With some DVD, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- Record the password in case you forget it.
- If there is a DVD in the unit when you set up the parental lock, press **[OPEN/CLOSE ▲]** to activate the parental lock level.

A   🔓 A password has not been set yet.

Use [▲ / ▼] to select "Yes". Use [the Number buttons] to enter a new password except for 4737, then press [OK].

```
Change Password?        Password Input
   Yes          Yes    [—][—][—][—]
   No
```
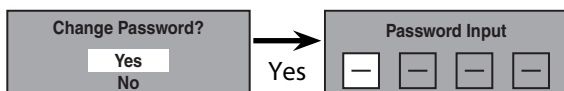
Your setting will be activated.

B   🔒 A password has been set already.

• Use [the Number buttons] to enter the current password.

```
Password Input
[✳][✳][✳][—]
```

Your setting will be activated.

• If you want to change password, use [▲ / ▼] to select "Yes". Use [the Number buttons] to enter a new password except for 4737, then press [OK].

<change the password>

```
Change Password?        Password Input
   Yes          Yes    [—][—][—][—]
   No
```
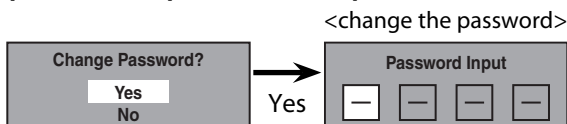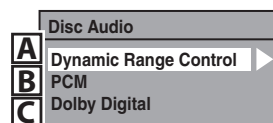
Your setting will be activated.

Note
- Press **[CLEAR]** to erase numbers entered incorrectly.
- When you forget the password or you want to clear all settings in "Parental Lock" menu, enter 4737 using **[the Number buttons]** in password input window. Password will be cleared and parental levels will be set to "OFF".

2 Disc Audio

Choose the appropriate audio setting for your external device.
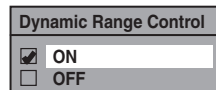
It will only affect a disc playback.

Use [▲ / ▼] to select a desired item, then press [OK].

```
    Disc Audio
A  Dynamic Range Control  ▶
B  PCM
C  Dolby Digital
```

A   Dynamic Range Control (Default : ON)

Set to "ON" to compress the range between soft and loud sounds.
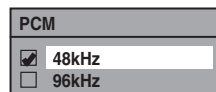
Use [▲ / ▼] to select a setting, then press [OK].

```
Dynamic Range Control
☑ ON
☐ OFF
```

Your setting will be activated.

Note
- Dynamic range control function is available only on the discs which are recorded in the Dolby Digital format.

B   PCM (Default : 48kHz)

Use [▲ / ▼] to select a setting, then press [OK].

```
PCM
☑ 48kHz
☐ 96kHz
```

Your setting will be activated.

48kHz : If your amplifier/decoder is NOT compatible with 96kHz PCM, select "48kHz". 96kHz sound will be output in 48kHz.

96kHz : If your amplifier/decoder is compatible with 96kHz PCM, select "96kHz". 96kHz sound will be output.
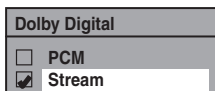
Note
When playing back disc with copyright protection
- Even if you select "96kHz", the sound will be down sampled at 48kHz.

SETUPS

Playback (cont'd)

C | Dolby Digital (Default : Stream)

Use [▲ / ▼] to select a setting, then press [OK].

Dolby Digital
- ☐ PCM
- ☑ Stream
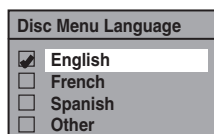
Your setting will be activated.

PCM : Converts the Dolby Digital into PCM (2 channel). When your amplifier/decoder is NOT compatible with Dolby Digital, set to "PCM".

Stream : Outputs Dolby Digital signals When your amplifier/decoder is compatible with Dolby Digital, set to "Stream".

3 | Disc Menu Language (Default : English)

Set the language for disc menu.

Use [▲ / ▼] to select a setting, then press [OK].

Disc Menu Language
- ☑ English
- ☐ French
- ☐ Spanish
- ☐ Other

Your setting will be activated.

4 | Audio Language (Default : Original)

Set the audio language.

Use [▲ / ▼] to select a setting, then press [OK].

Audio Language
- ☑ Original
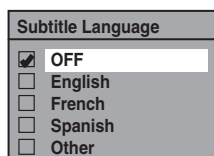- ☐ English
- ☐ French
- ☐ Spanish
- ☐ Other

Your setting will be activated.
- When "Original" is selected, the audio language will be in the disc's default language.
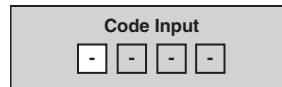
5 | Subtitle Language (Default : OFF)

Set the subtitle language.

Use [▲ / ▼] to select a setting, then press [OK].

Subtitle Language
- ☑ OFF
- ☐ English
- ☐ French
- ☐ Spanish
- ☐ Other

Your setting will be activated.

If "Other" is selected for **3** to **5**, press 4-digit code using **[the Number buttons]**.

Code Input
- [-] [-] [-] [-]

• **When you finish entering the code, press [OK]. Refer to the language code table on page 95.**

Note
- Only the languages supported by the disc can be selected.
- Audio language setting may not be available to some discs.
- You can change or switch off the subtitles on a DVD also from the disc menu if it is available.
- Press **[CLEAR]** or **[◄]** to erase numbers entered incorrectly.

6 | Angle Icon (Default : ON)

Set to "ON" to show the angle icon during the playback.

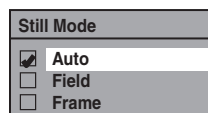**Use [▲ / ▼] to select a setting, then press [OK].**

Angle Icon
- ☑ ON
- ☐ OFF
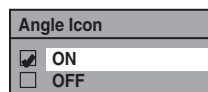
Your setting will be activated.

7 | Still Mode (Default : Auto)

Select "Auto" usually.

Use [▲ / ▼] to select a setting, then press [OK].

Still Mode
- ☑ Auto
- ☐ Field
- ☐ Frame

Your setting will be activated.

Auto : Optimum resolution setting ("Field" or "Frame") will be selected.
Field : Images in the still mode will be stabilized.
Frame : Images in the still mode will be highly defined.

Note
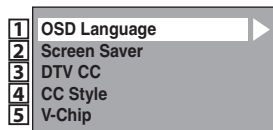- Frame is 1 completed video image made up of 2 fields (There are 30 frames per second of NTSC video).

Display

Press **[STOP ■]** if you are playing back a disc.

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**

2 **Use [▲ / ▼] to select "Display", then press [OK].**

3 **Use [▲ / ▼] to select a desired item, then press [OK].**

1	OSD Language
2	Screen Saver
3	DTV CC
4	CC Style
5	V-Chip

Selection menu will appear.

4 **Refer to 1 to 5 on pages 85-87 and set the selected item.**
· For 3 and 4 refer to pages 34-36.

5 **When you finish with setting, press [SETUP] to exit.**

1 OSD Language (Default : English)

Set the language for the on-screen display.

Use [▲ / ▼] to select a setting, then press [OK].

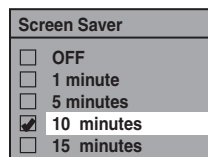| OSD Language |
|---|
| ☑ English |
| ☐ Français |
| ☐ Español |

Your setting will be activated.

2 Screen Saver (Default : 10 minutes)

Set the time to activate the screen saver function on the TV screen.

Use [▲ / ▼] to select a setting, then press [OK].

Screen Saver
☐ OFF
☐ 1 minute
☐ 5 minutes
☑ 10 minutes
☐ 15 minutes

Your setting will be activated.

MAGNAVOX
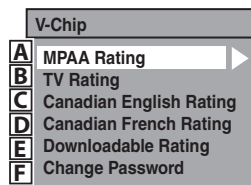
NB883

Display (cont'd)

5 V-Chip

With the V-chip system in this unit, you can set the viewing limitation for the analog/digital TV programs received from the tuner or recorded on DVDs to prevent your children from watching inappropriate programs. If the unit detects a blocked program, a restriction message appears and you are not allowed to view or record the program.

1) Use [the Number buttons] to enter the access password.

If you have not set the password, first, use **[the Number buttons]** to set the access password, then press **[OK]**. The number you entered will be stored as the access password.

```
Password Input
  —    —    —    —
```

2) Use [▲ / ▼] to select a desired item, then press [OK].

```
             V-Chip
A  MPAA Rating               ▶
B  TV Rating
C  Canadian English Rating
D  Canadian French Rating
E  Downloadable Rating
F  Change Password
```
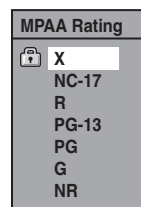
A	MPAA Rating
B	TV Rating
C	Canadian English Rating
D	Canadian French Rating

You can set the viewing limitation according to MPAA rating (US movie ratings), TV Rating (US TV program ratings), Canadian English Rating (Canadian English language Ratings) , Canadian French Rating (Canadian French language Ratings).

1) Use [▲ / ▼] to select the desired rating, then press [OK] repeatedly to switch between view and block. When it is blocked a key icon will appear.

e.g.) MPAA rating

```
   MPAA Rating
🔒  X
    NC-17
    R
    PG-13
    PG
    G
    NR
```

[MPAA Rating]

Rating	Category	
X	Mature audience only	**higher**
NC-17	No one under 17 admitted	↑
R	Restricted; under 17 requires accompanying parent or adult guardian	
PG-13	Unsuitable for children under 13	
PG	Parental guidance suggested	↓
G	General audience	**lower**
NR	No rating	

[TV Rating]

Rating	Category	
TV-MA	Mature audience only	**higher**
TV-14	Unsuitable for children under 14	↑
TV-PG	Parental guidance suggested	
TV-G	General audience	
TV-Y7	Appropriate for all children 7 and older	↓
TV-Y	Appropriate for all children	**lower**
None	No rating	

[Canadian English Rating]

Rating	Category	
18+	Adult audience only	**higher**
14+	Unsuitable for ages under 14	↑
PG	Parental guidance suggested	
G	General audience	
C8+	For children over 8	↓
C	For all children	**lower**
E	Exempt program	

SETUPS

Display (cont'd)

[Canadian French Rating]

Rating	Category	
18ans+	Adult audience only	**higher**
16ans+	Unsuitable for ages under 16	↑
13ans+	Unsuitable for ages under 13	↕
8ans+	Unsuitable for ages under 8	↓
G	General audience	**lower**
E	Exempt program	

As for TV Rating's TV-MA, TV-14, TV-PG, or TV-Y7, you can further set the sub ratings to block specific elements of programming. Press [▲ / ▼/ ◄ /►] to select the desired rating or sub rating, then press [OK] repeatedly to switch between view and block. Sub rating status will appear on the side of the main rating.

```
TV Rating

            FV  V  S  L  D
   TV-MA    [🔒][][]
   TV-14    [][][][]
   TV-PG    [][][][]
   TV-G
   TV-Y7    []
   TV-Y
   None
```

Sub Rating	Category	Rating
FV	Fantasy Violence	TV-Y7
V	Violence	TV-PG
S	Sexual Situation	TV-14
L	Coarse Language	TV-MA
D	Suggestive Dialogue	TV-PG, TV-14

Note
- Changing the main rating to block or view automatically changes all its sub ratings to the same (block or view).

E Downloadable Rating

Set the rating system via digital broadcasting, or clear the downloaded ratings.
If the broadcasting signal does not have the downloadable rating information, the message below will appear.

> **Downloadable Rating is currently not available.**

• This message will also appear when you try to access "Downloadable Rating" after you have cleared the downloadable rating information, and the new information has not been downloaded since.

To set the rating:
Use **[▲ / ▼]** to select "Block Setting" then press **[OK]** to show the various types of ratings. Use **[▲ / ▼]** to select a desired rating to set, then press **[OK]** to show the levels for the rating. Use **[▲ / ▼]** to select a level, then press **[OK]** to switch between view or block. If you set one level to block, a key icon will appear and all the higher levels will be blocked automatically.

To clear the downloadable rating information and its setting:
Use **[▲ / ▼]** to select "Clear Downloadable Rating", then press **[OK]**.

F Change Password

Change the current password.
Use [the Number Buttons] to enter new access password.

Note
- When you forget the access password at step 1), enter 4737 using **[the Number buttons]** in the password input window. Password will be cleared.
- Depending on the type of rating system, you may set the levels individually.

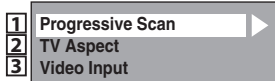**EN 87**

SETUPS

Video

Press **[STOP ■]** if you are playing back a disc.

1 Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].

2 Use [▲ / ▼] to select "Video", then press [OK].

3 Use [▲ / ▼] to select a desired item, then press [OK].

> **1** Progressive Scan ▶
> **2** TV Aspect
> **3** Video Input

Submenu will appear.

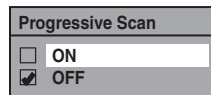**4** Refer to **1** to **2** on this page and set the selected item.
• For **3** refer to page 47.

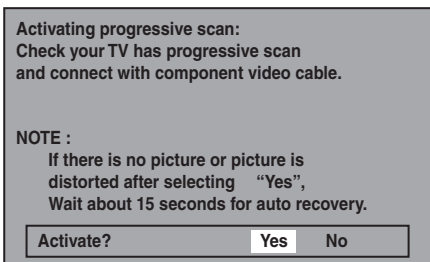**5** When you finish with setting, press [SETUP] to exit.

1 Progressive Scan (Default : OFF)

This unit is compatible with the progressive scan system. The feature provides you with the higher definition images than the traditional output system does. To utilize this feature, you must set progressive scan mode to "ON".

1) Use [▲ / ▼] to select "ON", then press [OK].

> **Progressive Scan**
> ☐ ON
> ☑ OFF

2) Use [◄ / ►] to select "Yes", then press [OK].

> Activating progressive scan:
> Check your TV has progressive scan
> and connect with component video cable.
>
> NOTE :
>   If there is no picture or picture is
>   distorted after selecting   "Yes",
>   Wait about 15 seconds for auto recovery.
>
> Activate?   Yes   No

3) Use [▲ / ▼] to select "Yes" within 15 seconds, then press [OK].
Your setting will be activated.

Note
• If your TV is compatible with progressive scan (525p / 480p), you are recommended to use the HDMI or component video cable (commercially available) to connect this unit to the TV. (Refer to pages 15-16.) If not, use the RCA video cable and set the progressive scan to "OFF" or press and hold **[SETUP]** for more than 3 seconds during DVD playback.
• When selecting "No" or not pressing any buttons on the unit or remote control within 15 seconds at step 3), progressive scan remains to be "OFF" (interlace scan).

2 TV Aspect (Default: 4:3 Letter Box)

You can select the TV aspect ratio to match the formats of what you are playing back or watching digital TV broadcasting with the unit and your TV screen (4:3 standard or 16:9 widescreen TV).

Use [▲ / ▼] to select a setting, then press [OK].

> **TV Aspect**
> ☑ 4:3 Letter Box
> ☐ 4:3 Pan & Scan
> ☐ 16:9 Wide
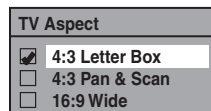
If you have a standard TV:
Select "4:3 Letter Box", so that black bars appear on the top and bottom of the TV screen when playing back a wide-screen picture. Select "4:3 Pan & Scan" for a full height picture with both sides trimmed when playing back wide-screen picture.
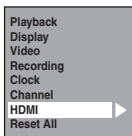
**If you have a widescreen TV:**
Select "16:9 Wide".

SETUPS

HDMI

1 **Press [SETUP] in stop mode and use [▲ / ▼] to select "General Setting", then press [OK].**

2 **Use [▲ / ▼] to select "HDMI", then press [OK].**

> Playback
> Display
> Video
> Recording
> Clock
> Channel
> HDMI
> Reset All

• You cannot select HDMI when an HDMI cable is not connected and the items are shown in grey color.

3 **Use [▲ / ▼] to select a desired item, then press [OK].**

> 1 Format
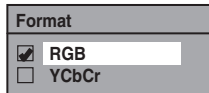> 2 HDMI Audio
> 3 RGB Range
> 4 HDMI Control
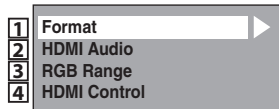
4 **When you finish with the setting, press [SETUP] to exit.**

1 Format (Default : RGB)

You can select the color space for HDMI output.
Set the appropriate color space for your display device.
Use [▲ / ▼] to select a setting, then press [OK].

• When the connected device is not compatible with the Y/Cb/Cr, HDMI signal is output as RGB regardless of the setting.
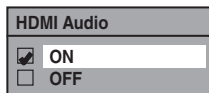
> **Format**
> ☑ RGB
> ☐ YCbCr

Your setting will be activated.

2 HDMI Audio (Default : ON)

If you do not want to output the audio through HDMI (when you digitally output the audio through the COAXIAL DIGITAL AUDIO OUT jack to your audio system, etc.), you can set the HDMI audio output off.

Use [▲ / ▼] to select a setting, then press [OK].

• Set to "OFF" when the HDMI sound is not output.

> **HDMI Audio**
> ☑ ON
> ☐ OFF

Your setting will be activated.

3 RGB Range (Default : Normal)

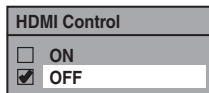You can adjust the RGB range to make the dark areas of the HDMI images brighter.

Use [▲ / ▼] to select a setting, then press [OK].

• Select "Enhanced" if the black-white contrast is not clear.
• This setting is effective only for HDMI RGB output.

> **RGB Range**
> ☑ Normal
> ☐ Enhanced

Your setting will be activated.

4 HDMI Control (Default : OFF)

> **HDMI Control**
> ☐ ON
> ☑ OFF

HDMI control allows integrated system control over HDMI and is part of the HDMI standard.

When "HDMI Control" setting is set to "ON", functions listed below will be available.

One Touch Play

When this unit is turned on, the TV also is turned on and the appropriate external input channel will be selected automatically. The appropriate external input channel can also be selected on your TV automatically, when you press **[PLAY ▶], [▶▶|], [|◀◀], [DISC MENU], [TIMER], [DTV/TV], [SETUP], [CHANNEL ＋ / —], or [the Number buttons]** when the unit's power is on.

Standby

When you press and hold **[STANDBY-ON ⏻]** for 2 seconds, it turns off the power to the standby mode of the TV first and then turns the power of this unit also.

System Information

Get & Set Menu Language

This unit recognizes the OSD language set for the TV and automatically sets the same language as the player menu language (OSD menu language) for this unit.

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SETUPS

Reset All
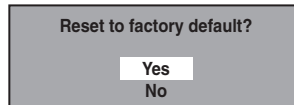
Reset the setting to default.

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**
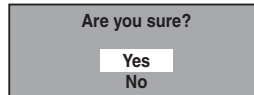"General Setting" menu will appear.

2 **Use [▲ / ▼] to select "Reset All", then press [OK].**

3 **Select "Yes" using [▲ / ▼] , then press [OK].**

> **Reset to factory default?**
>
> **Yes**
> **No**

4 **Select "Yes" again using [▲ / ▼] , then press [OK].**

> **Are you sure?**
>
> **Yes**
> **No**

Your setting in recording will be initialized.

Note

- The settings listed below will remain unchanged even after resetting to the factory default.
- – OSD language setting
- – Channel setting
- – Clock setting
- – Parental lock setting
- – V-chip setting
- – Timer programming information

TROUBLESHOOTING

Before requesting service for this unit, check the table below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

	Symptom	Remedy
POWER	The power does not turn on.	• Check that the AC power cord is connected securely. • Check the breaker (in case of power failure).
GENERAL	There is no picture.	• Re-connect the connecting cords securely. • Check if the connecting cords are damaged. • If the main menu appears on the TV screen, press **[RETURN]** to exit. • Check the connection to your TV (pages 14-19). • Check if the progressive scan mode is set correctly according to your TV (page 88). • Switch the input selector on your TV (such as to "L1") so that the signal from the unit appears on the TV screen.
	Picture noise appears.	• Clean the disc with a cleaning cloth.
	Playback picture from the external devices connected to this unit is distorted.	• If the picture output signal from the external devices passes through this unit to get to your TV, the copy protection signal applied to some DVD could affect the picture quality. Disconnect the playback device in question and connect it directly to your TV.
	TV program reception does not fill the TV screen.	• Try to set the channels with "Auto Channel Preset" or "Manual Channel Preset" in "Channel" menu (pages 26-28). • Select a channel of any TV program using **[CHANNEL + / —]**.
	TV program pictures are distorted.	• Adjust TV antenna. • Adjust the picture. (Refer to the TV's manual.) • Place the unit and TV farther apart. • Place the TV and any bunched RF coaxial cables farther apart.
	TV channels cannot be changed.	• Switch the input to TV. • Connect the RF coaxial cable correctly (pages 14-19).
	Playback picture is distorted.	• Keep the device which may cause electrical disturbances, such as a cellular phone, away.
	No image from HDMI connection.	• Check the HDMI connection. (Check the status of the HDMI related indications.) • Check whether the connected monitor device or other device supports HDCP. (This unit will not output a video signal unless the other device supports HDCP.) • Check the setting of HDMI. • Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of other connected device. • If the unit is connected to the unauthorized display device with an HDMI cable, the audio/video signal may not be output when playing back a commercial DVD-video.
	There is no sound.	• Clean the disc with a cleaning cloth. • Re-connect all connections securely. • Check if the connecting cord is damaged. • Check the connections to the amplifier input. • Check if the input device setting on the amplifier is correct. • When the unit is in pause mode or in slow-motion playback mode, sound is not output. This is not a malfunction. • When the unit is in fast forward or fast reverse mode, sound is not output. This is not a malfunction. • If you are using COAXIAL DIGITAL AUDIO OUTPUT jack, check the setting in "Disc Audio" (pages 83-84). • The HDMI sound is not output when "HDMI Audio" is set to "OFF". • Check the RCA audio cable connection. If you are using HDMI-DVI conversion cable, you must connect the RCA audio cable, too. • Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of other connected device. • While the setup menu or timer programming display is shown, or while the screen saver is active, the audio is muted.
	Sound is noisy.	• Clean the disc with a cleaning cloth.
	No DTS sound is output.	• This unit is not compatible with DTS sound.
	Setup menu cannot be called up.	• Setup menus cannot be called up during DVD recording or DVD playback.
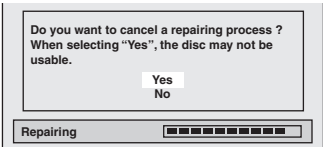
TROUBLESHOOTING

Symptom	Remedy
REMOTE CONTROL	
The remote control does not function.	• Batteries are weak. • There are obstacles between the remote control and the unit. • The remote control is far from the unit. • There are no batteries in the remote control. • Check if the unit is turned on. • Check if you are pointing the remote control at the recorder and NOT the TV. If you have a plasma TV, it may interfere with the IR signal. Try the remote with the plasma off. If the remote works, you may need to move the unit away from the plasma TV.
PLAYBACK	
The disc does not play back.	• No disc is inserted. • A blank disc is inserted. • The disc is upside down. Insert the disc with the labeled side facing up. • The disc is not correctly inserted. • The unit cannot play back certain discs (such as a CD-ROM) (page 52). • The region code on the DVD-video does not match the unit (page 52). • Moisture has condensed inside the unit. Remove the disc and leave the unit turned on for about 2 hours until the moisture evaporates (page 3). • If the disc was recorded on another recorder, the unit cannot play back the disc if it was not finalized.
Discs recorded on this unit cannot be played back on other DVD players.	• If you are using DVD+R, DVD-RW/-R disc, please ensure you finalized the disc after recording (page 50).
The disc does not start playback from the beginning.	• Resume playback was activated (page 59). Press **[STOP ■]** twice. • You have inserted a disc whose title menu or DVD menu automatically appears on the TV screen when it is first insert.
The unit starts playing back the disc automatically.	• The DVD-video features an auto playback function.
Some functions such as stop, search, or slow-motion playback cannot be performed.	• Depending on the disc, you may not be able to do some of the operations. Refer to the manual supplied with the disc.
The language for the sound track cannot be changed.	• The title does not have the multilingual audio tracks. • The DVD-video prohibits the changing of the language for the sound track.
The subtitle language cannot be changed or turned off.	• Multilingual subtitle are not recorded on the DVD-video.
The angles cannot be changed.	• Multi-angles are not recorded on the DVD-video being played back. • The angle-change operation is whenever possible as long as the disc contains a multi-angle portion. Actual change will be performed when the portion has come up. • The DVD-video prohibits changing angles. • Try changing the angle using the DVD-video's menu.
RECORDING	
The channel cannot be changed from the channel you are recording.	• Set the TV's input to "TV."
Nothing was recorded even though you set the timer setting correctly.	• There was a power failure during recording. • The unit's internal clock stopped due to a power failure that lasted for more than 30 seconds. Reset the clock (pages 29- 30). • The program contains copy protection signals that restricts copying. • The timer setting overlapped with another setting that has priority.
Recording does not stop immediately after you press **[STOP ■]**.	• It may take a few seconds for the unit to input disc data before recording stops.
Timer recording is not complete or did not start from the beginning.	• The timer setting overlapped with another setting that has priority (page 44). • Disc space was not enough.

TROUBLESHOOTING

Symptom	Remedy
The unit does not operate properly.	• When static electricity, etc., causes the unit to operate abnormally, unplug the unit and then plug it in again.
The disc tray does not open when you press **[OPEN/CLOSE ⏏]**.	• It may take a few seconds for the disc tray to open after you have recorded or edited a disc. This is because the unit is adding disc data to the disc.
"Repairing" appears on the TV screen. **Repairing** ▬▬▬▬▬▬▬▬▬▬	• If there is a power failure or unplugging during recording, finalizing, formatting or editing (even after "Repairing" disappears), a repairing process will begin automatically just after turning the unit on again. It may take several minutes up to about several hours.
In a case you intend to cancel the repairing process. **Do you want to cancel a repairing process ? When selecting "Yes", the disc may not be usable.** Yes No **Repairing** ▬▬▬▬▬▬▬▬▬▬	• If you intend to cancel the repairing process, press **[⏏ OPEN/CLOSE]** on the front panel, then select "Yes" and press **[OK]**. After that, press **[OPEN/CLOSE ⏏]** to take out the disc. **The disc canceled during the repairing process MAY NOT work.**

OTHERS

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

Others

Español

TROUBLESHOOTING

Disc Error message	Cause	Solution
Disc Error — Please eject the disc. — Playback feature may not be available on this Disc.	• Unplayable disc is inserted in the unit. • The disc is upside down.	• Insert the standardized disc which bear the marks on page 52. • Insert the disc with the labeled side facing up.
Region Error — Please eject the disc. — Playback is not authorized in your region.	• Playback is not authorized in the region of the DVD-video which you inserted in the unit.	• Insert the DVD-video with region codes 1 or ALL.
Parental Lock On The current selected parental level prohibits playback.	• The current selected parental level prohibits playback.	• Check "Parental Lock" setting in "Playback" menu (page 83).
Recording Error This program is not allowed to be recorded.	• The recording function encountered the copy prohibited program.	• You cannot record copy prohibited programs.
Recording Error This program is not recordable in +VR mode.	• You are trying to record the copy-once program.	• You cannot record the copy-once program.
Recording Error Can not record on this disc.	• You are trying to record onto the disc which is unrecordable, or the disc status is unable to record. • The disc is dirty. • The disc is damaged.	• Insert the recordable disc, and ensure the disc status satisfies the recording requirements (page 37). • Clean the disc with a cleaning cloth. • Replace the disc.
Recording Error This disc is protected and not recordable.	• You are trying to record on to the protected disc which is set in "Disc Edit" menu.	• Release the disc protect setting in "Disc Edit" menu (page 49).
Recording Error Disc is full. (No area for new recording)	• You are trying to record onto the disc which has no space for recording.	• Insert the recordable disc with enough recording space.
Recording Error You cannot record more than 49 titles on one disc. (The maximum is 49)	• You are trying to record onto the disc on which the number of recording titles comes up to the maximum (49).	• Delete unnecessary titles (page 68).
Recording Error You cannot record more than 254 chapters on one disc. (The maximum is 254)	• You are trying to record onto the DVD+RW or DVD-RW on which the number of recording chapters comes up to the maximum (254).	• Delete unnecessary chapter marks (pages 71-72).
Recording Error You cannot record on this disc as Power Calibration Area is full.	• When recordings are performed repeatedly onto an unstable disc, this area may come up to be full. • Every time you insert a disc for recording, the disc's working area will be taken up. And if you repeat this frequently, it will be used up sooner and you may not be able to record full 49 titles.	• Insert a new disc.
Recording Error This disc is already finalized.	• You are trying to record onto the disc already finalized.	• Release the finalizing for this disc (page 50).
Recording Error The disc has no recording compatibility. Set "Make Recording Compatible" to "ON" to convert the disc.	• You are trying to record onto the disc that had been recorded by other recorders.	• Set "Make Recording Compatible" to "ON" to rewrite the menu, after that you will record to disc (page 38).

* If you are still having trouble with the unit after checking "TROUBLESHOOTING", write down the error code and the error description for calling our help line mentioned on the front page to locate an Authorized Service Center.

LANGUAGE CODE

Language	Code	Language	Code	Language	Code
Abkhazian	4748	Hungarian	5467	Russian	6467
Afar	4747	Icelandic	5565	Samoan	6559
Afrikaans	4752	Indonesian	5560	Sangho	6553
Albanian	6563	Interlingua	5547	Sanskrit	6547
Amharic	4759	Interlingue	5551	Scots Gaelic	5350
Arabic	4764	Inupiak	5557	Serbian	6564
Armenian	5471	Irish	5347	Serbo-Croatian	6554
Assamese	4765	Italian	5566	Sesotho	6566
Aymara	4771	Japanese	5647	Setswana	6660
Azerbaijani	4772	Javanese	5669	Shona	6560
Bashkir	4847	Kannada	5760	Sindhi	6550
Basque	5167	Kashmiri	5765	Singhalese	6555
Bengali;Bangla	4860	Kazakh	5757	Siswat	6565
Bhutani	5072	Kinyarwanda	6469	Slovak	6557
Bihari	4854	Kirghiz	5771	Slovenian	6558
Bislama	4855	Kirundi	6460	Somali	6561
Breton	4864	Korean	5761	Spanish	5165
Bulgarian	4853	Kurdish	5767	Sundanese	6567
Burmese	5971	Laothian	5861	Swahili	6569
Byelorussian	4851	Latin	5847	Swedish	6568
Cambodian	5759	Latvian; Lettish	5868	Tagalog	6658
Catalan	4947	Lingala	5860	Tajik	6653
Chinese	7254	Lithuanian	5866	Tamil	6647
Corsican	4961	Macedonian	5957	Tatar	6666
Croatian	5464	Malagasy	5953	Telugu	6651
Czech	4965	Malay	5965	Thai	6654
Danish	5047	Malayalam	5958	Tibetan	4861
Dutch	6058	Maltese	5966	Tigrinya	6655
English	5160	Maori	5955	Tonga	6661
Esperanto	5161	Marathi	5964	Tsonga	6665
Estonian	5166	Moldavian	5961	Turkish	6664
Faroese	5261	Mongolian	5960	Turkmen	6657
Fiji	5256	Nauru	6047	Twi	6669
Finnish	5255	Nepali	6051	Ukrainian	6757
French	5264	Norwegian	6061	Urdu	6764
Frisian	5271	Occitan	6149	Uzbek	6772
Galician	5358	Oriya	6164	Vietnamese	6855
Georgian	5747	Oromo (Afan)	6159	Volapuk	6861
German	5051	Panjabi	6247	Welsh	4971
Greek	5158	Pashto; Pushto	6265	Wolof	6961
Greenlandic	5758	Persian	5247	Xhosa	7054
Guarani	5360	Polish	6258	Yiddish	5655
Gujarati	5367	Portuguese	6266	Yoruba	7161
Hausa	5447	Quechua	6367	Zulu	7267
Hebrew	5569	Rhaeto-Romance	6459		
Hindi	5455	Romanian	6461		

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GLOSSARY

Analog Audio
An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound. See also "Digital Audio".

Aspect Ratio
The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as it is high).

Chapter
Just as a book is split up into several chapters, a title on a DVD is usually divided into chapters. See also "Title".

Component Video Output
Each signal of luminance (Y) and component (P_B/C_B, P_R/C_R) is independent to output so that you can experience picture color as it is.
Also, due to compatibility with progressive video (525p/480p), you can experience higher-density picture than that in interlace (525i/480i).

Digital Audio
An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also "Sampling Frequency" and "Analog Audio".

Dolby Digital
The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo(2ch) or multi channel audio.

Finalize
To make DVD, which have been recorded on, possible to play back in DVD players. With this unit, it is possible to finalize DVD+R, DVD-RW, and DVD-R.

HDMI™ (high definition multimedia interface)
A digital interface between audio and video source. It can transmit component video, audio, and control signal with one cable connection.

JPEG (joint photographic experts group)
JPEG is a method of compressing still image files. You can copy JPEG files on CD-RW/-R from a computer and play back the files on this unit.

MP3 (MPEG audio layer 3)
MP3 is a method of compressing files. You can copy MP3 files on CD-RW/-R from the computer and play back the files on this unit.

PBC (playback control) (video CD only)
This function enables you to play back interactive software using a menu screen. See also "Video CD".

PCM (pulse code modulation)
The most common system of encoding digital audio, found on CD and DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital and MPEG audio to PCM. See also "Digital Audio".

Progressive Scan (525p/480p)
A type of display that does not split each frame into fields, and instead scans directly through all the scanlines of each frame in order. Progressive scan provides less flickering and higher image resolution than traditional (525i/480i) TV signals. Refer to page 88 for instructions on selective progressive scan mode.

Region Code
Regions associate discs and players with particular areas of the world. This unit will only play back discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

Sampling Frequency
The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality.

SAP (secondary audio program)
Sub-audio channel which is delivered separately from main-audio channel. This audio channel is used as an alternate in bilingual broadcasting.

S-Video Output
It delivers independently each signal of color(C) and luminance(Y) to TV as video signals, so that higher-quality picture will be gained.

Title
A collection of chapters on DVD. See also "Chapter".

Track
Audio CD use tracks to divide up the content of a disc. The DVD equivalent is called a chapter. See also "Chapter".

Video CD
A digital format for store video data in compact disc.

SPECIFICATIONS

General	
Power requirements	120V AC, 60Hz
Power consumption	20W (standby: 2.0W)
Dimensions (width x height x depth)	16.6 x 2.4 x 9.8 inches (420 x 59 x 247mm)
Weight	5.3 lbs. (2.4kg)
Operating temperature	41°F (5°C) to 104°F (40°C)
Operating humidity	Less than 80% (no condensation)
TV system	ATSC / NTSC-M TV standard

Recording	
Recording format	+VR (video recording) format
Recording discs	DVD+Rewritable, DVD+Recordable DVD-Rewritable, DVD-Recordable (+VR mode only)
Video recording format Sampling frequency Compression format	 13.5 MHz MPEG
Audio recording format Sampling frequency Compression format	 48 kHz Dolby Digital

Tuner	
Tuning system	Channel frequency synthesized tuning system
Channel coverage (ATSC / NTSC) Terrestrial CATV	 VHF 2~13, UHF 14~69 2~13, A~W, W+1~W+94 (analog W+1~W+84), A-5~A1, 5A

Terminals		
Front	**Audio input** RCA jack x 2	2V rms (input impedance: more than 22kΩ)
	Video input RCA jack x 1	1Vp-p (75Ω)
	S-video input Mini DIN 4-pin x 1	Y: 1Vp-p (75Ω) C: 286mVp-p (75Ω)
Rear	**VHF/UHF/CATV input and output** F-type	75Ω unbalanced
	Audio input RCA jack x 2	2V rms (input impedance: more than 22kΩ)
	Audio output RCA jack x 2	2V rms (output impedance: more than 1kΩ)
	Video input RCA jack x 1	1Vp-p (75Ω)
	Video output RCA jack x 1	1Vp-p (75Ω)
	S-video input Mini DIN 4-pin x 1	Y: 1Vp-p (75Ω) C: 286mVp-p (75Ω)
	S-video output Mini DIN 4-pin x 1	Y: 1Vp-p (75Ω) C: 286mVp-p (75Ω)
	Component video out RCA jack x 3	Y: 1Vp-p (75Ω) P_B/C_B: 700mVp-p (75Ω) P_R/C_R: 700mVp-p (75Ω)
	Coaxial digital audio out RCA jack x 1	500mVp-p (75Ω)
	HDMI output HDMI jack x 1	

Note
• The specifications and design of this product are subject to change without notice.

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Discos Reproducibles

Este aparato es compatible con la reproducción de los siguientes discos y archivos.

Discos reproducibles	Logotipos
DVD-video	
DVD+RW	
DVD+R	
DVD-RW (Sólo discos en modo de video finalizados)	
DVD-R (Sólo discos en modo de video finalizados)	
CD-DA (CD de audio)	
CD de video	
CD-RW	
CD-R	
Kodak Picture CD	

Archivos reproducibles	Soportes
MP3	CD-RW/-R
JPEG	

es una marca registrada de DVD Format/Logo Licensing Corporation.

Códigos de Región

El número presente en el interior el globo se refiere a una región del mundo.Este aparato puede reproducir discos DVD que estén rotulados para ALL las regiones o para la región 1.

Disco Grabable

Este aparato puede grabar a DVD+RW, DVD+R, DVD-RW y DVD-R.
Los discos DVD+R/DVD-R pueden ser grabados sólo una vez. Los discos DVD+RW/DVD-RW pueden ser grabados y borrados muchas veces.
En este aparato los discos DVD-RW/-R serán grabados automáticamente en el modo DVD+VR.

Logotipos	Atributos
DVD+RW **DVD+R**	Disco de 8 cm / 12 cm, un solo lado, una sola capa Tiempo de grabación máx. aprox. (modo SLP): 360 minutos (4,7 GB) (para 12 cm) 108 minutos (1,4 GB) (para 8 cm)
DVD-RW **DVD-R**	

• Los siguientes discos se recomiendan para obtener una buena calidad de grabación y han sido comprobados como compatibles con este aparato. Sin embargo, según sea la condición del medio el equipo podría no leer el disco correctamente.

|		
Verbatim	DVD+R 8x,	DVD+RW 4x,
	DVD-R 8x,	DVD-RW 2x
JVC	DVD-RW 4x	
Maxell	DVD+R 4x/8x/16x,	DVD-R 8x/16x
SONY	DVD+R 4x/8x/16x,	DVD+RW 4x
TDK	DVD+R 4x/8x/16x	

El comportamiento de cualquier otro disco no está garantizado.

• **Usted puede reproducir discos DVD+RW en la mayoría de los reproductores de DVD sin finalizarlos. Sin embargo, si usted ha añadido o eliminado capítulos, u ocultado capítulos, debe ejecutar "Compatibilizar edic." antes de poder ver dichos efectos en otros equipos. (Consulte la página 78.) Para reproducir discos que no sean DVD+RW en otros reproductores de DVD, usted necesitará finalizarlos.**
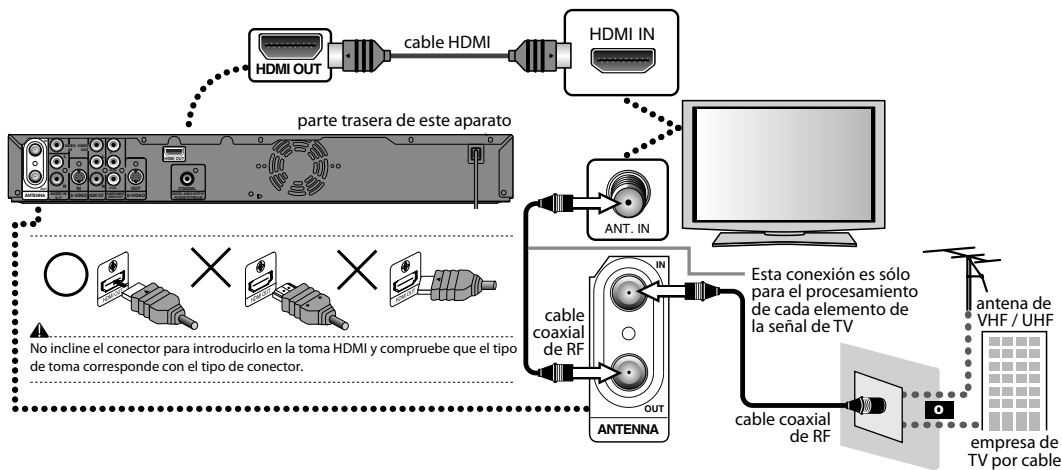
Disco no Grabable

• Un DVD-RW grabado en un modo distinto de +VR no será grabable en este aparato a menos que usted borre todo el contenido del disco. (Consulte la página 77.)
• Un DVD-R grabado en un modo distinto de +VR no será grabable en este aparato.

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Conexión Básica
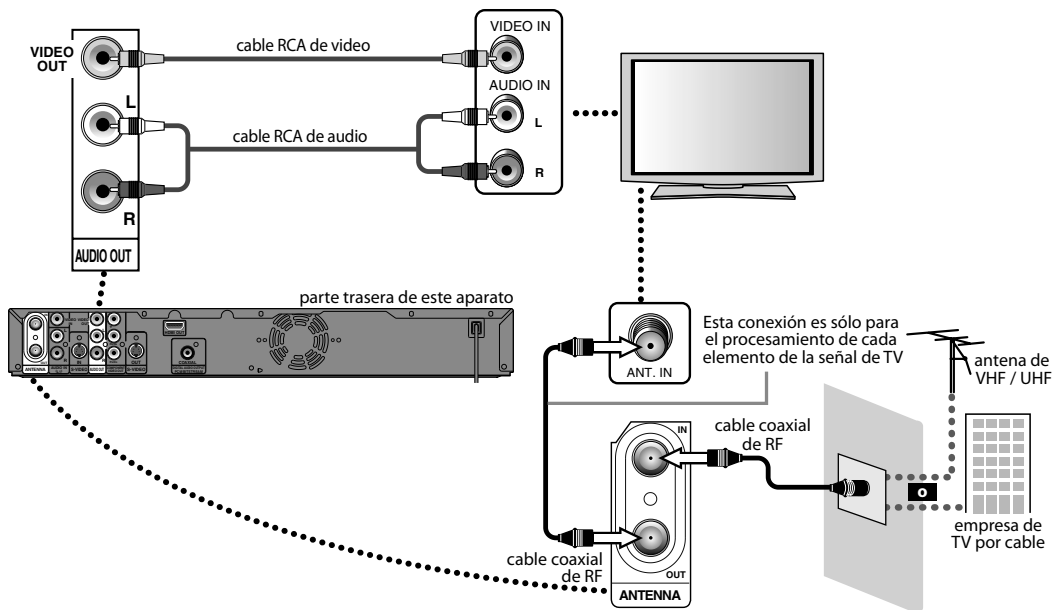
Conexión a un Televisor con un Puerto Compatible con HDMI™

• HDMI emite las señales de video / audio sin convertirlas en señales analógicas.
• No es necesaria una conexión de audio.

No incline el conector para introducirlo en la toma HDMI y compruebe que el tipo de toma corresponde con el tipo de conector.

Modo HDMI y señales efectivas de salida

Presione **[HDMI]** para seleccionar el modo de salida HDMI. Cada vez que se presiona **[HDMI]** el modo de salida varía como sigue.

Visualización en pantalla	Señal de salida de video
480p	**Progresivo de 480**
Presione [HDMI] ↓	
720p	**Progresivo de 720**
Presione [HDMI] ↓	
1080i	**1080 entrelazado**
Presione [HDMI] ↓	
1080p	**Progresivo de 1080**
Presione [HDMI]	

• El modo HDMI que no esté admitido por el dispositivo de exhibición será pasado por alto.
• Aparecerá "---" cuando no disponga de información.
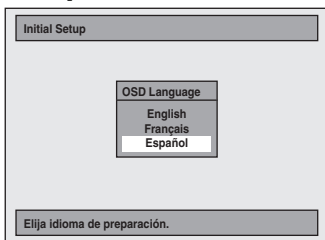
ES 99

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Configuración Inicial

Cuando usted encienda este aparato por primera vez necesita seguir estos pasos.
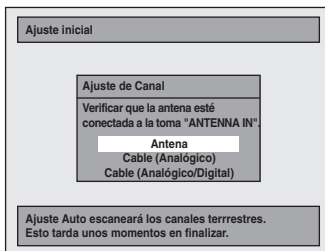
1 Presione [STANDBY-ON ⏻].

Encienda el televisor. Seleccione la entrada a la cual está conectado el aparato.

2 Utilice [▲ / ▼] para seleccionar su idioma deseado, y luego presione [OK] para establecerlo.

```
Initial Setup


          OSD Language
            English
            Français
            Español



Elija idioma de preparación.
```
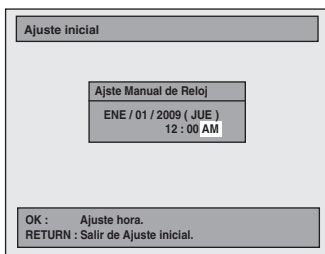
3 Utilice [▲ / ▼] para seleccionar el tipo de señal de emisión, y luego presione [OK].

```
Ajuste inicial


     Ajuste de Canal
     Verificar que la antena esté
     conectada a la toma "ANTENNA IN".
            Antena
        Cable (Analógico)
     Cable (Analógico/Digital)


Ajuste Auto escaneará los canales terrrestres.
Esto tarda unos momentos en finalizar.
```

El equipo comenzará a obtener los canales disponibles en su región.

4 Utilice [◄ / ►] para seleccionar un elemento a configurar, y utilice [▲ / ▼] para seleccionar el contenido de su preferencia, y luego presione [OK].

```
Ajuste inicial


     Ajste Manual de Reloj
     ENE / 01 / 2009 ( JUE )
                 12 : 00 AM



OK :       Ajuste hora.
RETURN : Salir de Ajuste inicial.
```

Grabación Básica

1 Presione [OPEN/CLOSE ▲] para abrir la bandeja de discos e insertar su disco con el rótulo aupntando hacia arriba. Presione de nuevo [OPEN/CLOSE ▲] para cerrar la bandeja de discos.
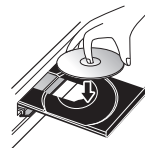
* Asegúrese de que el disco sea compatible con este aparato.(Para obtener la lista de discos compatibles consulte la página 98.)

2 Para seleccionar un modo de grabación presione [REC MODE].

Modo de grabación	Tiempo de grabación		Calidad del video y el sonido
	Disco de 8 cm	Disco de 12 cm	
HQ (1Hr)	18 min	60 min	Buena
SP (2Hr)	36 min	120 min	
SPP (2.5Hr)	45 min	150 min	
LP (3Hr)	54 min	180 min	
EP (4Hr)	72 min	240 min	
SLP (6Hr)	108 min	360 min	Deficiente

3 Presione [DTV/TV] para seleccionar TV analógica o TV digital, y a continuación, utilice [CHANNEL + / −] o [los botones numéricos] y [•] (para canales de TV digital) para seleccionar un canal que desea grabar.

4 Presione [REC] para iniciar la grabación.

Para configurar la grabación a un toque con temporizador (OTR)...

Esta es una manera sencilla de configurar el tiempo de grabación en bloques de 30 minutos.

Presione **[REC]** repetidamente hasta que aparezca en la pantalla del televisor la longitud deseada de grabación (30 minutos a 6 horas).

Comenzará la grabación a un toque con temporizador.

```
  ●   0h30m


           0h30m
(grabación normal)   1h00m


       6h00m    5h30m
```
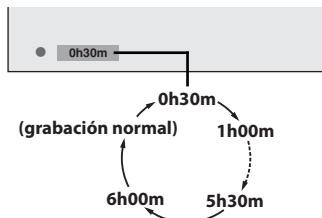
Para cambiar la duración de la grabación durante la grabación a un toque con temporizador:

Presione **[REC]** repetidamente hasta que aparezca la duración deseada.

Para cancelar la grabación a un toque con temporizador dentro del tiempo especificado:
Presione **[STOP ■]**.

5 Para de tener la grabación presione [STOP ■].

Grabación con Temporizador

Usted puede programar el equipo para que grabe hasta 12 programas, con un mes de anticipación. También hay disponibles grabaciones de programas diarias o semanales.

Antes de grabar, asegúrese de que

• Antes de establecer una programación del temporizador configure el reloj.
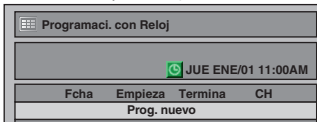
• Inserte un disco grabable con suficiente espacio libre.

1 Presione [TIMER].

2 Utilice [▲ / ▼] para seleccionar "Prog. nuevo", y luego presione [OK].

```
┌──────────────────────────────────────┐
│ ▦ Programaci. con Reloj               │
│                                        │
│             🕐 JUE ENE/01 11:00AM      │
│  Fcha   Empieza  Termina    CH         │
│             Prog. nuevo                │
└──────────────────────────────────────┘
```

3 Configure una programación del temporizador.

4 Presione [OK].

5 Presione [STANDBY-ON ⏻] para configurar una programación del temporizador.

Se iluminará el indicador TIMER REC en el panel delantero.
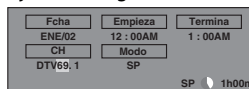
Configure la fecha.

```
┌─────────────────────────────────┐
│  Fcha     Empieza     Termina   │
│  ENE/02   -- : --     -- : --   │
│  CH       Modo                  │
│  DTV69. 1  SP                   │
│                      SP  ◖ 2h00m│
└─────────────────────────────────┘
```

Configure las horas de inicio y finalización.

```
┌─────────────────────────────────┐
│  Fcha     Empieza     Termina   │
│  ENE/02   12 : 00AM   -- : --   │
│  CH       Modo                  │
│  DTV69. 1  SP                   │
│                      SP  ◖ 2h00m│
└─────────────────────────────────┘
```

Seleccione un modo deseado de entrada y el canal a grabar.

Para obtener más detalles, consulte "How to select a channel number for the timer recording" en la página 43 del manual del usuario.

ej.) modo digital

```
┌─────────────────────────────────┐
│  Fcha     Empieza     Termina   │
│  ENE/02   12 : 00AM   1 : 00AM  │
│  CH       Modo                  │
│  DTV69. 1  SP                   │
│                      SP  ◖ 1h00m│
└─────────────────────────────────┘
```

Seleccione un modo de grabación.

```
┌─────────────────────────────────┐
│  Fcha     Empieza     Termina   │
│  ENE/02   12 : 00AM   1 : 00AM  │
│  CH       Modo                  │
│  DTV125. 1  SP                  │
│                      SP  ◖ 1h00m│
└─────────────────────────────────┘
```

MAGNAVOX

NB883

Reproducción

1 Presione [STANDBY-ON ⏻].

STANDBY-ON
⏻

2 Abra la bandeja de discos, y Inserte un disco.

OPEN/
CLOSE
⏏

3 Cerrar la bandeja de discos.

OPEN/
CLOSE
⏏

4 Comience a reproducir.

►

5 Detenga la reproducción.

■

MAGNAVOX
LIMITED WARRANTY

FUNAI CORP. will repair this product, free of charge in the USA in the event of defect in materials or workmanship as follows:

DURATION:

PARTS: FUNAI CORP. will provide parts to replace defective parts without charge for one (1) year from the date of original retail purchase. Certain parts are excluded from this warranty.

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IMPORTANT:

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